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1918/19



THE G. V. BLACK MUSEUM, NORTHWESTERN UNIVERSITY DENTAL SCHOOL

Northwestern University

EVANSTON and CHICAGO

Dental School

Thirty-second Annual
Announcement

1918-1919

Published by the University
September, 1918

Dental School Calendar

1918-1919

1918

- Sept. 23 Mon. Examinations for advanced standing begin
Oct. 1 Tue. Academic year begins
Oct. 12 Sat. Last day for entrance in course
Nov. 28 Thu. Thanksgiving Day
Dec. 21 Sat. Last day of school before Christmas recess

1919

- Jan. 6 Mon. First day of school after Christmas recess
Feb. 3 Mon. Mid-year examinations begin
Feb. 3 Mon. Practitioner's Course begins
Feb. 10 Mon. Second semester begins
Feb. 12 Wed. Lincoln's Birthday
Feb. 22 Sat. Washington's Birthday
Mch. 1 Sat. Practitioner's Course ends
May 22 Thu. *Senior examinations begin
May 30 Fri. Memorial Day
June 2 Mon. Junior, Sophomore and Freshman examinations begin
June 9 Mon. Commencement Banquet
June 10 Tue. Home Coming Clinic
June 11 Wed. SIXTY-FIRST ANNUAL COMMENCEMENT

The University

ON the last day of May, in the year 1850, there met in the City of Chicago, at the office of Grant Goodrich, 109 Lake Street near Dearborn, nine men, Richard A. Blanchard, Jabez K. Botsford, Andrew J. Brown, Henry W. Clark, John Evans, Grant Goodrich, Zadoc Hall, Richard Haney, and Orrington Lunt, to consider the founding of a university in the vicinity of Chicago. They agreed that "the interests of Christian learning demand the immediate establishment of a University in the North-west," and appointed a committee to petition the General Assembly for a charter. January 28, in the next year, 1851, Governor French signed the Act that incorporated "the Trustees of the Northwestern University." The name of the corporation has since been changed to Northwestern University.

The first Board of Trustees consisted of thirty-six persons, some of whom were representatives of annual conferences of the Methodist Episcopal Church and some residents of Chicago or vicinity. The corporation as at present constituted consists of thirty-six trustees elected by the Board, and two elected by each of three annual conferences of the Methodist Episcopal Church, making a total of forty-two.

The charter provides that a majority of the Board shall be members of the Methodist Episcopal Church, but that no particular religious faith shall be required for those who become students at the institution.

Amendments have provided that other chartered institutions may become departments of the University; that all property of whatever kind or description belonging to or owned by the said corporation shall be forever free from taxation for any and all purposes; that no spirituous, vinous, or fermented liquors shall be sold under license or otherwise, within four miles of the location of the University.

After considering several locations in the vicinity of Chicago, the Trustees selected for the University a tract of land on the shore of Lake Michigan, twelve miles north of the heart of Chicago. Here in 1855 the first University building was erected, and about this location has grown up the City of Evanston, a beautiful residential city of thirty thousand inhabitants. The professional schools of Medicine, Law, Dentistry, and Commerce are situated in the city of Chicago.

NORTHWESTERN UNIVERSITY DENTAL SCHOOL

Administrative Officers

Thomas Franklin Holgate, Ph.D., LL.D., President of the University, *ad interim*.

Thomas Lewis Gilmer, M.D., D.D.S., Sc.D., Dean.

Arthur Davenport Black, M.A., M.D., D.D.S., Junior Dean.

Otto Ulysses King, D.D.S., Secretary.

The Faculty

Thomas Lewis Gilmer, M.D., Sc.D., D.D.S., Professor of Oral Surgery.

Arthur Davenport Black, M.A., M.D., D.D.S., Professor of Dental Pathology and of Operative Dentistry.

Edmund Noyes, D.D.S., Professor of Dental Jurisprudence and Ethics.

James Harrison Prothero, D.D.S., Professor of Prosthetic Technics, Prosthetic Dentistry, and Metallography.

Twing Brooks Wiggin, M.D., Professor of Physiology; Instructor in Physical Diagnosis.

Ira Benson Sellery, D.D.S., Professor of Orthodontia.

Harry Mann Gordin, Ph.D., Professor of Chemistry.

Eugene Shaw Willard, D.D.S., Professor of Bacteriology and Dental Pathology.

Fred William Gethro, D.D.S., Professor of Operative Dentistry.

Harry Isaac Van Tuyl, B.S., M.D., D.D.S., Professor of Anatomy.

*Herbert Anthony Potts, D.D.S., M.D., Professor of Pathology; Lecturer on Anæsthesia; Assistant in Oral Surgery.

William Bebb, M.S., D.D.S., Professor of Comparative Anatomy; Curator of the Museum.

Newton George Thomas, M.A., D.D.S., Professor of Biology and Histology; Assistant Curator of the Museum.

James Leonard Morlan, B.S., D.D.S., Assistant Professor of Operative Dentistry.

Hillis Talley Brown, D.D.S., Assistant Professor of Anatomy.

Robert Edwin Blackwell, D.D.S., Assistant Professor of Operative Dentistry; Superintendent of the Clinic.

*In National Service.

Ernest Kennedy, D.D.S., Assistant Professor of Prosthetic Dentistry.
William Graham Skillen, D.D.S., Assistant Professor of Histology.
Roscoe Leaton Stout, D.D.S., Assistant Professor of Prosthetic Dentistry; in charge of Junior Prosthetic Laboratory.
George Bion Denton, Ph.D., Assistant Professor of English.
Edward Howard Hatton, M.D., Special Research Investigator; in charge of the Research Laboratory.
Otto Ulysses King, D.D.S., Lecturer in Economics.
George Buchanan Macfarlane, D.D.S., Chief Clinical Instructor in Operative Dentistry.
George Edward Meyer, D.D.S., Instructor in Oral Surgery.
*Floyd DeWitt Leach, D.D.S., Instructor in Radiography.
Michael Joseph Buckley, D.D.S., Instructor in Orthodontia.
*Charles West Freeman, D.D.S., Instructor in Oral Surgery.
Joseph Emerson Ridgway, D.D.S., Instructor in Prosthetic Dentistry; in charge of Freshman and Sophomore Laboratories.
*William Spencer Ryan, M.D., D.D.S., Instructor in Materia Medica; in charge of Materia Medica Laboratory.
Benjamin Harrison King, D.D.S., Instructor in Bacteriology.
Jay Kaplan, Ph.C., Instructor in Chemistry.
Charles Edward Wach, Ph.G., D.D.S., Instructor in Materia Medica.
Benjamin Sherwin Partridge, D.D.S., Instructor in Operative Dentistry.
Merl Mayo Printz, D.D.S., Instructor in Operative Dentistry.
James Perrie Smith, D.D.S., Instructor in Operative Dentistry.
*Thomas Hubert Renn, M.D., Instructor in Physiology.
Isaac Alonzo Smothers, D.D.S., Instructor in Dental Pathology.
Henry Randolph Rovelstad, D.D.S., Instructor in Physiology.
*Stanley William Clark, D.D.S., Instructor in Orthodontia; Demonstrator in Operative Dentistry.
Robert Ray Page, D.D.S., Instructor in Operative Dentistry.
Alvin Guy Gunter, D.D.S., Instructor in Operative Dentistry.
Charles George Sholes, D.D.S., Instructor in Prosthetic Dentistry.
William A. Murray, D.D.S., Instructor in Prosthetic Dentistry.
Louis Henry Ebersold, D.D.S., Instructor in Operative Dentistry.
*John S. Kellogg, D.D.S., Instructor in Prosthetic Dentistry.
Lladislaus J. Nalencz-Koniuszewski, D.D.S., Instructor in Prosthetic Dentistry.

*In National Service.

John Edward Birtwistle, D.D.S., Instructor in Prosthetic Dentistry.

Minter Kelly Bragg, D.D.S., Instructor in Operative Dentistry.

Gottfred Rudolph Lundquist, D.D.S., Instructor in Operative Dentistry.

Perry Lee Scofield, D.D.S., Instructor in Operative Dentistry.

Joseph David Talbot, D.D.S., Instructor in Operative Dentistry; Assistant in Oral Surgery.

Richard Leslie Bower, D.D.S., Instructor in Pathology.

Clarence Edwin Matteson, D.D.S., Instructor in Physiology; in charge of Physiology Laboratory.

Harris Walker McClain, Ph.G., D.D.S., Instructor in Orthodontia and in Materia Medica.

Cyrus Blazer McClurg, M.D., Instructor in Pathology.

Ray Garfield Pierce, D.D.S., Instructor in Bacteriology.

Lester Dale Weeks, B.A., D.D.S., Instructor in Chemistry, in charge of Chemical Laboratory.

Otis John Wall, D.D.S., Instructor in Operative Dentistry.

Luther P. Basford, D.D.S., Examiner of Patients.

Frederick William Merrifield, D.D.S., Assistant in Oral Surgery; in charge of Extraction Clinic.

Christian Bernard Gurslee, B.S., Instructor in Physics; in charge of Physics Laboratory.

Henry Plummer Westaby, D.D.S., Instructor in Radiography.

STUDENT ASSISTANTS

Charles Robert Deindoerfer, Assistant in Radiography.

Gabriel J. Heyboer, Assistant in Chemistry.

Irwin Sylvester Oakland, M.S., Assistant in Chemistry.

*Warren Leroy Fleck, Assistant in Biology.

Jesse L. Ulrich, Assistant in Physics.

John Gustav Voigt, Assistant in Radiography.

Andrew W. Zeis, Assistant in Radiography.

*In National Service.

The Dental School

THE DENTAL SCHOOL was founded and is maintained for the purpose of preparing young men and young women in the most thorough manner for the practice of dentistry, and for the promotion of dental science and dental literature.

The reputation earned by this School is well shown by the tabulation, on page 62, of the geographical distribution of students in attendance during the past year, from thirty-six states and nine foreign countries.

The Dental School was organized in 1887 and three years later became a department of the University. In 1896 it absorbed the American College of Dental Surgery and for some years occupied the building on Franklin and Madison Streets, Chicago. It is now located in Northwestern University Building, at the corner of Lake and Dearborn Streets, Chicago, occupying the upper three floors of the building, over 60,000 square feet.

The following men are deserving of permanent recognition for their devotion to this School, as evidenced by their work in its development: Doctors Thomas L. Gilmer, G. V. Black, Edgar D. Swain, George H. Cushing, Theodore Menges, C. R. E. Koch, W. V-B. Ames and James H. Prothero.

SPECIAL NOTICE—STUDENTS' ARMY TRAINING CORPS

Under regulations recently announced by the War Department, a number of universities have been selected for the establishment of Students' Army Training Corps. Northwestern University is one of these, and the Dental School will have its own officers and corps. There will be ten hours per week of military training during the school year and six weeks in summer camp for those who enlist for the training corps.

All students over eighteen years of age are eligible to enlist. They immediately become members of the United States Army, will be furnished with uniforms by the Government, and will be subject to active service at the call of the President. It is the expectation that members of this corps will not be called to the colors until after graduation. This corps will have ten hours per week of military training under officer instructors provided by the War Department. The regular schedule of the School will be modified to meet this requirement.

It is expected that this training will qualify a considerable percentage of the students to enter officers' training camps.

Arrangements are being made for a drill ground located within easy walking distance of the School.

THE ENLISTED MEDICAL RESERVE CORPS

Men of draft age, who have not been called for service by their local boards, may matriculate as Freshmen in the Dental School on or after August 10, 1918, and enlist in the Enlisted Medical Reserve Corps. It is the expectation that they will be permitted to continue the dental course to graduation unless their services are urgently needed. This provision has been made by the Government to encourage attendance at dental schools in order that there may be assured a sufficient number of dentists to meet the future needs of the Army. Such students are not granted exemption, and are not permitted to remain in school unless their scholastic records are satisfactory. They will be members of the Students' Army Training Corps and their work will be under Government supervision.

BUILDING AND EQUIPMENT

Northwestern University Building is in the transportation center of over three millions of people living within a radius of forty miles, a location especially advantageous for obtaining the great number of clinical patients needed in a dental school. See pages 36 and 37 for statement of number of patients and operations performed during the last School year.

The operative clinic, sufficient in extent to accommodate the great clinic and the offices connected with it, is of the best design of construction, consisting of a single room with arched ceiling. It is on the sixth floor, with free light on two sides and abundant skylight. Adjoining the operative clinic is the prosthetic clinic, and on the same floor is the senior prosthetic laboratory for crown and bridge work, the laboratory for porcelain and cast metal inlay work, an impression room, and two rooms and waiting-room for extracting, and a room devoted to radiographic work. There are six lecture-rooms, three of which are arranged on the amphitheater plan and have seats for 240 students. One of these is for the oral surgery clinic which has a waiting-room for surgical patients, a room for diagnosis and the preparation of patients, and a recovery room with sufficient beds for

the temporary care of patients. The other three lecture rooms have seats for 175, 100, and 75 students. There are eight recitation rooms, each accommodating thirty-five or more students. Other rooms are the anatomical laboratory, which is placed well apart, and the laboratories for prosthetic technics, operative technics, chemistry, biology, histology, physiology, general pathology, bacteriology, materia medica, and for physics; the photographic laboratory, the students' reading-room, the library, and the museum.

A new laboratory for scientific research is equipped with every facility for advance study of the many unsolved problems which confront the dental profession. This laboratory has every convenience for bacteriological study, animal experimentation and the study of human material from the general and oral surgery clinics.

THE THEODORE MENGES LIBRARY

The Library and the adjoining reading-room occupy, together with the attached Journal Reading Room, 3,800 feet of floor space. It is furnished with reading tables and chairs for about one hundred students. The Library contains 3,338 volumes of books on dental and collateral subjects; a fine supply of dictionaries and encyclopedias conveniently placed in the reading-room for easy consultation; and a nearly complete list of the dental journals that have been published in the English language, with about 25,000 duplicate numbers. The books most used by the students are duplicated, up to six or twelve, and a few to fifteen copies. The books and journals may be used in the reading-room without restriction, and when the duplication of volumes will allow, they may be drawn out as a circulating library.

THE G. V. BLACK MUSEUM

The Museum, which in many of its sections is the most complete collection of illustrative material in existence, is open to inspection and study. The cases are arranged to show the specimens to the best advantage.

Recently the very extensive private collection of Dr. William Bebb has been added to the Museum under the title of the Bebb Collection. This collection consists of paleontological and modern animal and human bones, skeletons and skulls; many varieties of preserved fur animals, and a very choice collection of ancient and modern-obsolete dental instruments, tools and equipment; many

volumes of rare old books on dentistry in various languages; and engravings, paintings, lithographs, and cartoons illustrative of the development of dentistry. All of these have been arranged in most attractive manner for exhibition and study.

The comparative anatomy specimens consist of heads with the teeth, with the exception of the gorilla and chimpanzee, of which there are full skeletons. There is a sufficient number of varieties of each of the several orders to afford specimens of every kind of tooth form and of every variety of placement in mammals, saurians, and snakes, with a large variety of fishes.

The principal specimens of human skulls are, first, an excellent mounting of the separated bones of the adult; second, a fine set of dissections in a series showing the development of the teeth and the roots from the first appearance in the fetus to the full adult development, and illustrating the absorption of the roots of the deciduous teeth, the shedding process, and the replacement by permanent teeth; also the absorption of the alveolar processes after the loss of teeth, with the changes that occur in the form of the bones of the jaws from childhood to old age.

The Museum contains also a valuable collection of human teeth of abnormal forms; a very full and complete set of specimens illustrating interproximal wear and the flattening of the points of interproximal contact. It is especially rich in casts of cases of supernumerary teeth; some illustrations of the very early forms of artificial teeth, of manufactured porcelain teeth, and of dental instruments, illustrating the development in these lines. This collection has been made in the School largely by students and by alumni, and is being continually increased by donations from those who have met with specimens unusual or rare in practice.

It also contains a most complete representation of the progress of Dental Hygiene and Prophylaxis as represented by the progressive steps of the development of the toothbrush, and a complete collection of dental instruments and appliances now obsolete in modern practice of dentistry.

SITUATION AND SURROUNDINGS

The central location of the school and its convenient access from every point affords many and peculiar advantages to its students. It gives them the widest possible range of choice of residence while attending the school, without inconvenience in coming and going. It also gives the school the widest range of territory from which to

draw the extensive clinic so necessary to a great dental school. The patients for this clinic come from all parts of the city of Chicago and its suburbs. The personal influence of the students of the school, each one of whom draws from his own friends and acquaintances, made in and about his place of residence, is an invaluable adjunct to the number who come simply as acquaintances of the school. Patients who come as the friends of students make up the personal clinical practice of the individual student.

In this the out-of-town students seem to be in no respect less favored than the student whose home is in the city. This gaining, and holding, a personal clinical practice under the supervision of the instructors in the clinic rooms has come to be one of the features of this school that has a telling effect upon the after-practice of its students. By this plan of work the student not only learns the theory of practice and the manipulations of practical operations in dentistry, but he passes at once to the work of real experience in building a practice for himself; in gaining that skill in professional comity and personal manner between himself and his patients, which is as necessary to him in after years, in drawing together and maintaining a practice, as his knowledge of dental diseases and his skill in their treatment.

For these reasons the residence of students in groups in widely different portions of the city is favored. This also gives the benefits of a more homelike life, while giving in the aggregate a far better conception of life in a great city and decidedly better opportunity to draw upon its advantages, while shunning the disadvantages of large gatherings of students in a single locality.

Chicago is a great city and gives many opportunities to the student who learns to avail himself of them. Lincoln Park on the north offers, besides its beautiful pleasure grounds, some extensive botanical gardens and winter conservatories, where all manner of plants may be enjoyed and studied; a fine zoological collection, where a large variety of animal and bird life may be studied, and the Museum of Natural History, in which there is a very large collection of birds, animals and fossil remains of extinct animal life. Jackson and Washington Parks on the south, besides their extensive pleasure grounds, also offer splendid botanical gardens and winter conservatories, while the Field Columbian Museum offers a rare collection of Natural History specimens especially suited for the study of comparative dental anatomy, of modern and ancient skulls and the condition of the teeth in the various races and types of men

in different ages. The admission to this museum is free to students on presentation of their matriculation tickets to this school.

The Art Institute of Chicago is located within easy walking distance of the School; it offers many free admission hours, making its cultural opportunities conveniently available.

OTHER LIBRARIES

A number of libraries are accessible to students who have taste for study, or for looking up subjects of scientific or literary interest, or in connection with special studies.

The University library collections offer very abundant facilities for students. They are ample in the number of books adapted to the different schools and are so situated as to be easily accessible; generally within the school buildings. They consist of the College Library, the Law Library, the Medical Library and the Theological Library.

CHICAGO LIBRARY (773,403 volumes) is on Michigan Avenue and Washington Street, five minutes' walk from the school. It is one of the finest libraries in the country. Students may receive books from this library when vouched for by responsible persons known to the officials. This library has also many branch offices in different parts of the city, from which books may be received on application. These are convenient to many of the boarding places of students.

THE NEWBERRY LIBRARY is very large (367,015 volumes) and, besides general works, has also a large collection devoted to history. It is on North Clark Street and Walton Place, and may be reached in a ten minutes' walk. This is a reference library and books can be used only in its reading rooms.

THE JOHN CRERAR LIBRARY (368,508 volumes) occupies one and one-half floors in the Marshall Field Building, corner Wabash Avenue and Washington Street. It is devoted mainly to the natural, the physical and the social sciences, with their applications, but has one large room containing medical and dental books and periodicals. It is a most excellent collection of books. It is a reference library, and its books are used only in its reading rooms.

Admission and Instruction

In teaching staff, requirements for admission, curriculum, equipment and facilities of every kind, Northwestern University Dental School complies fully with the rules of the Dental Educational Council of America for Class A Dental Schools.

For statement relative to Students' Army Training Corps and the Enlisted Medical Reserve Corps see page 9.

ADMISSION

A candidate for admission to the Dental School for the year 1918-1919 may be accepted upon presentation of a diploma, or equivalent certificate, from an accredited high school or academy which requires for graduation not less than fifteen units of high school work obtained in a four year course beyond the eighth grade of the elementary school. No conditions on the foregoing entrance requirement will be allowed. An accredited high school is defined as one which is accredited as a four year high school by the United States Bureau of Education, or by a University which is a member of the Association of American Universities, or by the State University of the State in which the high school is located.

In the case of an applicant who is not a graduate from a high school or academy, as defined above, the full equivalent of such education in each individual case must be established by the Committee on Examinations, appointed by the Illinois State Superintendent of Public Instruction, and attested by him. The Committee on Examinations may issue a certificate upon presentation of credentials from schools attended, or upon the passing of written examinations given by the Committee, or both.*

The credential covering the candidate's preliminary education must include not less than three Units in †English, one unit in Algebra, one unit in Geometry, and one unit in Physics, Chemistry, or Biology. The remaining nine units may be made up of other subjects included in standard High School courses.

A unit is a course of study requiring daily recitations on one

*The Illinois law provides that this Committee on Examinations shall charge a fee of ten dollars for each person who presents for examination or for the evaluation of credentials.

†Foreigners from non-English speaking countries, who present more than four units of foreign language, and who can speak, read and write the English language, will be accepted as meeting the requirement in English.

topic for a full school year. No credit amounting to less than a half unit will be allowed toward the fifteen units required.

This School will receive no student who is not present within ten days after the opening day of the session in each year, or in case of illness properly certified by the attending physician, within twenty days after the opening day. It is desirable that students should register early, since the order of assignment of seats in the lecture halls is based on the order of registration. The record of attendance is kept from the opening day, and students who may be admitted at a later day will lose their attendance credit for the intervening period.

Undergraduate students are not received for special courses in dentistry.

Students registering agree thereby to accept the discipline imposed by the Faculty.

ADMISSION TO ADVANCED STANDING

Students wishing credit for courses parallel to courses required in this School, should bring credentials for same, and should present their notebooks. No credit on the dental course will be allowed for high school chemistry, physics, botany, zoology, or biology.

Students who present certificates from other Class A dental schools covering subjects required in this School, may be credited with such studies if their preliminary education was such as would have admitted them to this School as Freshmen, and if the credentials are satisfactory to the Dean and to the professors in the respective departments; but credits are not accepted unconditionally. The Faculty reserves the right to examine any applicant for advanced standing, if in its judgment that should be desirable. When admitted to the Senior class the candidate must do one full year's work in this School.

Examinations for advanced standing and for the removal of conditions in the Dental course will begin on September 23, 1918—one week before the course begins—and *no make-up examinations will be given at a later time.* A schedule of these examinations will be furnished upon request.

COURSE FOR THE DEGREE OF DOCTOR OF DENTAL SURGERY

The course covers four years. The year begins on the first Tuesday in October and closes on Commencement Day of the University in June. There are not less than thirty-two weeks of actual instruction given, six days in each week.

POST-GRADUATE COURSE

A postgraduate, or practitioner's course has been arranged which begins the first Monday in February of each year and continues through four full weeks. A special announcement of this course will be found on page 47.

MILITARY SERVICE COURSE

A special course for those entering the Army or Navy Dental Corps is scheduled to begin on Feb. 3, 1919, and continue four weeks. A special announcement of this course will be found on page 49. See pages 57 to 61 for lists of those who took post-graduate and military service courses in 1917-18.

COMBINED COURSES

Students who desire to obtain the Bachelor of Science and Doctor of Dental Surgery degrees may enroll on a combined Literary and Dental course, and thus shorten the required time for earning the two degrees from eight to seven years. This privilege is open to students who during their first three years have maintained a uniform record of good scholarship. A candidate for the degree of Bachelor of Science who has been a student in the College of Liberal Arts for at least one year may enroll upon the combined course.

Schedule of Courses

FOR THE YEAR 1918-1919

Special Notice—Northwestern University has been selected by the Government for the establishment of one of the new Students' Army Training Corps. The Dental School will have its own officers and corps, and as the members of the corps will have ten hours a week of military training, some modification of the regular School schedule will be necessary. For announcement regarding the Students' Army Training Corps, see page 9.

Beginning with the session of 1915-16 the general plan of teaching was changed by the division of classes into small sections for recitation and laboratory periods, in order that the student might receive more thorough instruction and be brought into closer relations with the instructors. To accomplish this purpose, the building was remodeled to provide necessary additional rooms and laboratory facilities, and the teaching staff was increased in every department.

In the new four-year schedule, a general rearrangement of courses has been made by which better co-ordination and sequence of related

subjects has been obtained. Technical laboratory courses have been extended to better prepare students to undertake practical operations in the clinic, and opportunity is also provided for increased clinical experience.

Students are expected to take the courses in the order enumerated, but some deviation from this rule may be allowed in cases approved by the Faculty.

The courses in the several departments are described under the department headings in subsequent pages. The order in which courses are to be taken is here indicated.

Schedule

FRESHMAN YEAR

	Hours a week		Hours a year	
	Recitation	Laboratory	Recitation	Laboratory
*English	2		64	
Physics	1	3 (1 Sem.)	32	48
Technical Drawing		3 (1 Sem.)		48
Biology	2 (1st Sem.)	4 (1st Sem.)	32	64
Anatomy	1 (1 Sem.)	6 (1 Sem.)	16	96
Chemistry, Inorganic	2	4	64	128
Histology, General	2 (2d Sem.)	4 (2d Sem.)	32	64
Dental Anatomy	1 (1st Sem.)	6 (1st Sem.)	16	96
Operative Technics	1 (2d Sem.)	6 (2d Sem.)	16	96
Prosthetic Technics	1	9	32	288
Mouth Hygiene	1		16	
	10	29	320	928—1,248

*In 1919-20, two hours per week will be devoted to English during the second semester of the Sophomore year.

SOPHOMORE YEAR

	Hours a week		Hours a year	
	Recitation	Laboratory	Recitation	Laboratory
Anatomy of Head and Neck	1 (1 Sem.)	9 (1 Sem.)	16	144
Histology, Dental	1	3	32	96
Chemistry, Organic and Physiological	1	3	32	96
Physiology	2	3 (1 Sem.)	64	48
Bacteriology	1	3	32	96
Comparative Dental Anat- omy	1 (1 Sem.)		16	
Operative Technics	2	6 (1 Sem.)	64	96
Prosthetic Technics	1	9	32	288
Clinical Operative and Prosthetic Dentistry.....		9 (2d Sem.)		144
	9	31½ avr.	288	960—1,248

JUNIOR YEAR

	Hours a week		Hours a year	
	Recitation	Laboratory	Recitation	Laboratory
*Histology, Dental	1	3	32	96
Physiology	1		32	
Physical Diagnosis	1 (1 Sem.)		16	
Pathology	1	3 (1 Sem.)	32	48
Materia Medica	1	3 (1 Sem.)	32	48
Dental Pathology	1	3 (1 Sem.)	32	48
Dental Radiography	1 (1 Sem.)	1 (1 Sem.)	16	16
Mouth Hygiene	1 (1 Sem.)		16	
*Comparative Dental Anat- omy	1 (1 Sem.)		16	
Orthodontia	1 (1 Sem.)	3 (8 wks.)	16	24
Operative Dentistry	2		64	
Anesthesia	1 (1 Sem.)		16	
Prosthetic Dentistry	1	3	32	96
Surgical Anatomy groups..				16
Extraction Clinic				10
Clinical Operative and Prosthetic Dentistry		18		576
	<u>11</u>	<u>30</u>	<u>352</u>	<u>978—1,330</u>

*After 1918-19, these courses will be given in the Sophomore year only.

SENIOR YEAR

	Hours a week		Hours a year	
	Recitation	Laboratory	Recitation	Laboratory
Dental Pathology	2		64	
*Mouth Hygiene	1 (1 Sem.)		16	
Jurisprudence and Ethics...	1 ($\frac{1}{3}$ yr.)			
Dental Economics	1 ($\frac{1}{3}$ yr.)		32	
*Dental Radiography	1 ($\frac{1}{3}$ yr.)			
‡Comp. Dental Anatomy...	1 (1 Sem.)		16	
*Anesthesia	1 (1 Sem.)		16	
Oral Surgery	1	2	32	64
Operative Dentistry	{ 1 (1 Sem.) 2 (1 Sem.) }		48	
Prosthetic Dentistry	1		32	
Orthodontia	1		32	
Special Clinics for Divisions of Class, in Extraction, Oral Surgery, Peridental Diseases, Operative and Prosthetic Dentistry		2 { for each Division }		64
Clinical Practice in Ortho- dontia, Operative and Prosthetic Dentistry		32		1,024
	<u>9</u>	<u>36</u>	<u>288</u>	<u>1,152—1,440</u>

*After 1918-19 these courses will be given in the Junior year only.

‡After 1918-19, this course will be given in the Sophomore year only.

Anatomy

PROFESSOR VAN TUYL

FRESHMAN YEAR

a. **Lecture-recitation—Osteology of the Entire Body*—Twelve weeks, class divided into sections, each section one hour a week. Professor Van Tuyl, Professor Brown, and Dr. Ryan.

b. *Lecture-recitation—Syndesmology and Myology*—Four weeks, one hour a week. Professor Van Tuyl, Professor Brown, and Dr. Ryan.

c. *Laboratory—Human Dissections*—The upper and lower extremities and the abdomen are dissected. One semester. Class divided into sections, each section two three-hour periods each week. Professor Van Tuyl, Professor Brown, Dr. Ryan, and Assistants.

SOPHOMORE YEAR

d. *Lecture-recitation—Angeology, Neurology, Organs of the Senses and Splanchnology*—One semester, one hour a week. Professor Van Tuyl, Professor Brown and Dr. Ryan.

e. *Laboratory—Human Dissections*—The Head, Neck and Thorax. Surgical anatomy of the Head and Neck. One semester. Class divided into sections, each section three three-hour periods a week. Professor Van Tuyl, Professor Brown, Dr. Ryan, and Assistants.

Bacteriology

SOPHOMORE YEAR

a. *Lecture-recitation—Principles of Bacteriology*—The preparation of culture media; management of laboratory cultures; distinguishing varieties of micro-organisms in laboratory cultures; physiology of micro-organisms; poisons produced by micro-organisms; diseases caused by micro-organisms, particularly those of the teeth and mouth; susceptibility and immunity to diseases. One hour a week throughout the year. Professor Willard, Dr. B. H. King, and Dr. Pierce.

b. *Laboratory*—Preparation of culture media; planting and management of cultures; separation of species in mixed cultures;

*For all lecture-recitation courses, lectures are given to the entire class, and the class is divided into sections of about thirty for recitations. As a rule, there are three recitation periods following each lecture.

deriving pure cultures from infected animals; cultures from saliva, from mucous membranes, and from carious teeth; staining, mounting, and microscopic studies; diagnosis of unknowns. Class divided into sections, each section three hours a week throughout the year. Professor Willard and Dr. B. H. King.

Biology

PROFESSOR THOMAS

FRESHMAN YEAR

a. *Lecture-recitation*—Studies of the properties of living matter; a few selected types of flowering plants and invertebrate animals. Organic evolution, studies of the development of animals, using eggs of fishes, amphibia and the chick. First semester, two hours a week. Professor Thomas.

b. *Laboratory*—The course in the laboratory will parallel the lecture-recitation course, and will consist of demonstration experiments and studies by members of the class. First semester. Class divided into sections, each section two two-hour periods per week. Professor Thomas and Mr. Fleck.

Chemistry

PROFESSOR GORDIN

FRESHMAN YEAR

a. *Lecture-recitation—General and Inorganic Chemistry*—First semester. Class divided in sections. Two hours a week. Professor Gordin and Mr. Kaplan.

b. *Laboratory*—Illustrative experiments in General and Inorganic Chemistry. First semester. Class divided into sections, each section two two-hour periods a week. Professor Gordin, Dr. Weeks, and Assistants.

c. *Lecture-recitation—General and Inorganic Chemistry*—Second semester. Two hours a week. Professor Gordin and Mr. Kaplan.

d. *Laboratory*—The metals and their compounds. Qualitative chemical analysis of unknown mixtures, particularly bases and alloys. Second semester. Class divided into sections, each section two two-hour periods a week. Professor Gordin, Dr. Weeks, and Assistants.

SOPHOMORE YEAR

e. *Lecture-recitation—Organic Chemistry*—First semester, one hour a week. Professor Gordin and Mr. Kaplan.

f. *Lecture-recitation—Organic and Physiological Chemistry*—Second semester, one hour a week. Professor Gordin and Mr. Kaplan.

g. *Laboratory*—Quantitative chemical analysis of dental alloys, etc. Refining of gold, silver, and other metals. Laboratory study of cements and other filling materials. Assay of dental alloys for gold, silver, tin, platinum. Practical problems of dental chemistry. Illustrative experiments in Organic Chemistry. Analysis of saliva. Urine analysis. Class divided into sections, each section three hours a week. Professor Gordin, Dr. Weeks, and Assistants.

Comparative Dental Anatomy

PROFESSOR BEBB

SENIOR, JUNIOR AND SOPHOMORE YEARS*

a. *Lecture—Evolution*—The meaning of similarity of structure; natural selection; changes in organs; correlation of growth between parts; principles of heredity and of fixity of species; tooth forms; definitions and descriptions of the varieties of forms; the typical mammalian dentation; classification of the animal kingdom, with concise descriptions of the typical characteristics of each. One semester. One lecture or recitation a week. Professor Bebb.

b. *Laboratory*—Small groups in the Museum for study of specimens.

Dental Economics

DR. O. U. KING

SENIOR YEAR

a. *Lecture—Dental Economics*—This course embraces practice building, methods of obtaining and retaining patients, business relations between the dentist and his patients, fees, accounts, records of operations, presentation and collection of accounts, methods of economy in the conduct of an office. Ten weeks. One lecture a week. Dr. O. U. King.

*After the year 1918-19, this course will be given to the Sophomore class only.

Dental Jurisprudence and Ethics

PROFESSOR NOYES

SENIOR YEAR

a. *Lecture—Ethics*—Elementary principles of ethics; professional ethics; state laws relating to dentistry; Illinois dental law; dental jurisprudence; general review. One lecture a week. Twelve weeks. Professor Noyes.

English

PROFESSOR DENTON

FRESHMAN YEAR*

a. *Lecture-recitation*—Composition and rhetoric. Study of the composition as a whole; the paragraph; the sentence; grammar and punctuation; themes. First semester, two hours a week. Professor Denton.

b. *Lecture-recitation*—Types of literature; the drama; the essay; the novel. Second semester, two hours a week. Professor Denton.

Histology

PROFESSOR THOMAS

FRESHMAN YEAR

a. *Lecture-recitation*—The construction and the use of the microscope. A study of cell structure and functions; the elementary tissues; histology of the organs; circulatory, lymphatic, alimentary tract, and accessory glands, respiratory system, urinary organs, and skin. Second semester, two hours a week. Professor Thomas and Professor Skillen.

b. *Laboratory*—A laboratory study of the subjects of the lecture course. Second semester. Class divided into sections, each section two two-hour periods a week. Professor Thomas and Professor Skillen.

c. *Recitations*—During laboratory hours.

*In 1919-20, two hours per week will be devoted to English during the second semester of the Sophomore year.

SOPHOMORE AND JUNIOR YEARS*

d. *Lecture-recitation—The Dental Tissues*—Enamel; the peridental membranes; periosteum; bone; mucous membranes and other soft tissues of the mouth. One and two-thirds semesters. One hour a week. Professor Thomas and Assistants.

e. *Lecture-recitation—Embryology*—One hour a week. One-third of a semester. Professor Thomas and Professor Skillen.

f. *Laboratory*—A laboratory study of the subjects of lecture courses d and e. Class divided into sections, each section one three-hour period a week throughout the year. Professor Thomas and Professor Skillen.

g. *Recitations*—During laboratory hours throughout the year.

Materia Medica and Therapeutics

DR. RYAN

JUNIOR YEAR

a. *Lecture-recitation*—The sources and various forms of drugs; general and local action of drugs; agencies that modify the action of drugs; the art of prescribing medicines; a critical study of about one hundred drugs, classified according to their therapeutic and toxic action. Medication for dental purposes. One hour a week throughout the year. Dr. Ryan, Dr. Wach, and Dr. McClain.

b. *Laboratory*—Study of the origin and preparation of various drugs; prescription writing; dispensing; reactions, antidotes for poisons, etc. Class divided into sections, each section three hours a week during one semester. Dr. Ryan.

Mouth Hygiene; Oral Prophylaxis

PROFESSOR BLACK

FRESHMAN YEAR

a. *Lecture-recitation*—This course will include a presentation of the general problems involved in disease of the oral cavity, with a discussion of means of prevention. The various methods of maintaining mouth cleanliness will be presented, and the technic will be given in detail. First semester. One hour a week. Professor Black.

*After 1918-19, this course will be given to the Sophomore class only.

JUNIOR AND SENIOR YEARS*

b. *Lecture—Oral Prophylaxis and Mouth Hygiene*—Preventive measures which may be employed by both dentist and patient. Mouth hygiene technique. The relation between operative and prosthetic procedures to the diseases of the soft tissues. Teaching of mouth hygiene technique in public schools, and dental service in public schools and eleemosynary institutions. Second semester. One hour a week. Professor Black.

Operative Dentistry and Dental Pathology

PROFESSOR BLACK, PROFESSOR GETHRO, PROFESSOR WILLARD, PROFESSOR MORLAN, PROFESSOR BLACKWELL, AND DR. MATTESON

DENTAL ANATOMY, OPERATIVE TECHNICS

FRESHMAN YEAR

a. *Lecture-recitation—Descriptive Anatomy of the Human Teeth*—Nomenclature. Studies of the maxilla and mandible, with especial attention to the surgical anatomy. First semester. One hour a week. Dr. Matteson.

b. *Laboratory*—Studies of the forms of individual teeth; carving the tooth forms in bone or ivory; dissections and studies of the internal parts—pulp chambers and root canals. First semester. Class divided into sections, each section two three-hour periods a week. Dr. Matteson and Assistants.

c. *Lecture-recitation—Instruments and Instrumentation*—A study of instrument forms, instrument construction, and the adaptation of instruments to the excavation of cavities. *Cavity Nomenclature*—A study of the location of cavities in extracted teeth, of the forms of prepared cavities, and of the use of instruments in their preparation. *Oral Prophylaxis*—Studies of instruments and manipulation. Second semester. One hour a week. Dr. Matteson.

d. *Laboratory*—Study of instrument forms; a set of forty-eight excavators made to millimeter scale in brass; preparation of cavities in extracted human teeth, ivory or bone. Second semester. Class divided into sections. Each section two three-hour periods a week. Dr. Matteson and Assistants.

*After 1918-19, this course will be given to the Junior class only.

OPERATIVE DENTISTRY

SOPHOMORE YEAR

e. *Lecture-recitation—Technical Procedures in Cavity Preparation and in Filling Teeth*—Cavity nomenclature; cavity preparation; principles, instruments and appliances, and instrumentation; cavity preparation by classes of cavities. Filling materials; instruments and instrumentation, physics of filling operations, finishing fillings. Filling with gold foil, gold inlays, amalgam, cements, gutta-percha. Exposure and removal of the dental pulp. Preparation and filling of root canals. Two hours a week throughout the year. Professor Blackwell and Dr. Matteson.

f. *Laboratory*—Preparation of cavities and manipulation of the various filling materials. Pulp treatment and the filling of root canals. Instrumentation in oral prophylaxis and in the treatment of diseases of the periodontal membrane. These operations are performed with extracted human teeth, placed in position in the jaws of manikins, the conditions being as nearly like those met with in actual practice as possible. First semester, two three-hour periods a week. Professor Blackwell, Dr. Matteson and Assistants.

g. *Operative Clinic*—Open to Sophomore students nine hours a week during the second semester. Operations are required amounting to fifty points in gold fillings, fifty points in gold inlays, fifty points in amalgam fillings and fifty points in treatments. Professor Black, Professor Gethro, Professor Morlan, Professor Blackwell and Assistants.

JUNIOR YEAR*

h. *Lecture-recitation—Technical Procedures in Cavity Preparation and Filling Teeth*—Cavity nomenclature; cavity preparation; principles, instruments and appliances, and instrumentation; cavity preparation, by classes of cavities. Filling materials; instruments and instrumentation, physics of filling operations, and of finishing fillings. Filling with gold foil, gold inlays, amalgam, cements, gutta-percha. Exposure and removal of dental pulp. Preparation and filling of root canals. Two hours a week throughout the year. Professor Morlan, Dr. Printz, and Dr. Partridge.

i. *Operative Clinic*—Open to Junior students eighteen hours a week during the entire year. Operations amounting to one hundred

*In 1918-19, this course will be given to both Sophomore and Junior classes, thereafter to the Sophomore class only. The present Senior course will then be given to the Junior class.

points required in gold fillings, one hundred points in gold inlays and one hundred points in amalgam fillings. Credit points are given for fillings ranging from one to ten points. The location of the cavity, the operative difficulties encountered, and the excellence of the completed operation determine the amount of points earned in each case. Professor Black, Professor Gethro, Professor Morlan, Professor Blackwell, and Assistants.

SENIOR YEAR*

j. *Lecture-recitation—Review of Technical Procedures in Filling Teeth—The Hard Tissues of the Teeth*—Studies of the dystrophies of the enamel, of erosion, abrasion, and dental caries; caries of enamel; caries of dentin; inception and progress of dental caries; conditions of the beginning of dental caries; systemic causes of dental caries; susceptibility from and immunity to dental caries; vital phenomena in dental caries; hyperesthesia of dentin; treatment of dental caries; curative effect of fillings; selection of filling materials. First semester. One hour a week. Professor Gethro, Dr. Smith, and Dr. Gunter.

k. *Lecture-recitation*—The force used in mastication in relation to operative procedures; treatment of dental caries; management of cavities by classes; "extension for prevention" and its limitations; esthetic considerations; the deciduous teeth, their pathology and treatment; the childhood period of the permanent teeth; management of patients. Second semester. One hour a week. Professor Gethro, Dr. Smith and Dr. Gunter.

l. *Lecture—Inlay Technique*—Historical review of various methods of filling teeth; gold inlays; porcelain inlays; silicious cements, oxyphosphate cements. First semester. One hour a week. Professor Gethro.

m. *Operative Clinic*—Open to Senior students daily throughout the year. Operations amounting to two hundred points are required in gold fillings, two hundred points in gold inlays and two hundred points in amalgam. Professor Black, Professor Gethro, Professor Morlan, Professor Blackwell, and Assistants.

n. *Special Operative Clinic*—Each section one hour a week for five weeks. Professor Gethro.

*After 1918-19, the greater part of this course will be transferred to the Junior year, and the Senior course will be largely devoted to seminar work and thesis writing.

DENTAL PATHOLOGY AND THERAPEUTICS

JUNIOR YEAR

o. *Lecture-recitation—Pathology and Treatment of the Gingivae and Peridental Membrane and of the Dental Pulp*—Review of the histological structures and physical functions of the tissues, their diseases and treatment. In this course especial attention will be given to the technical procedures and their application in the clinic. Radiographic studies of cases of peridental disease and apical infections, also of root canal fillings, form an important feature of this course. About 17,000 radiographs were taken for school patients last year. Oral prophylaxis and mouth hygiene—preventive measures which should be employed by dentist and patient—will be presented. One hour a week throughout the year. Professor Black.

p. *Laboratory—Histo-pathological Studies of the Teeth and Their Investing Tissues*—The changes which occur in hard tissues in the various dystrophies—atrophy, mottled teeth, white enamel, etc.; in dental caries, secondary dentin and excementosis; also the changes in the pulp in inflammation and the various forms of calcification; and in the peridental tissues in chronic alveolar abscess and chronic pericementitis. One period of three hours a week during one semester. Professors Black and Bower.

q. *Clinical Practice*—Junior students are required to make one hundred points in practical treatments in the clinic.

SENIOR YEAR*

r. *Lecture-recitation—Pathology and Treatment of the Gingivae and Peridental Membrane*—Review of histological structures and physical functions of tissues; historical review of diseases and treatment; studies of salivary calculus; gingivitis and pericementitis due to deposits of salivary calculus; gingivitis due to deposits of serumal calculus; gingivitis caused by injuries; chronic suppurative pericementitis; systemic effects of chronic infections of the mouth. One hour a week throughout the year. Professor Black, Dr. Smothers, Dr. Lundquist, and Dr. Matteson.

s. *Lecture-recitation—Pathology and Treatment of the Dental Pulp*—Review of histological structure and functions; hyperemia and inflammation, obtunding sensitive dentin; devitalization; removal; treatment of canals; root filling; aseptic technique; alveolar abscess;

*Note: In 1918-19, a part of this Senior course will be given to the Junior class, and in 1919-20 the Senior course will be modified accordingly, a portion of the course being devoted to seminar work and thesis writing.

chronic osteitis; necrosis of bone; studies of antiseptics and their effect on the tissues; bleaching teeth. One hour a week throughout the year. Professor Willard, Dr. B. H. King, Dr. Ebersold, and Dr. Scofield.

t. *Clinical Practice*—In addition to the above courses, Senior students are required to make two hundred points in practical treatments in the clinic. Radiographic studies of periodontal disease and apical infections, also of root canal fillings, will be an important part of the care of cases in the clinic. About 17,000 radiographs were taken for school patients last year.

u. *Periodontal Membrane Clinic*—Each section, one hour a week for five weeks. Professor Black.

Oral Surgery

PROFESSOR GILMER

JUNIOR YEAR

a. *Surgical Anatomy*—In small groups, sixteen hours. Dr. Meyer.

b. *Extraction Clinic*—Each section two hours a week for five weeks. Dr. Merrifield.

c. *Radiography*—Lectures and practical instruction in radiographic room. Second semester. Two hours each week. Dr. Leach and Assistants.

d. *Lecture—Anesthetics*—Historical review; state of the patient; nature of operation; choice of anesthetic; prolonged dental operations; circumstances of administration; examination of patients; general anesthetics, local and regional anesthetics, dangers of anesthesia; ether, chloroform, nitrous oxid; nitrous oxid and oxygen for anesthesia and analgesia; conductive anesthesia. One semester. One hour a week. Professor Potts.

e. *Clinical Demonstrations of Nitrous Oxid and Novocain Anesthesia*—Daily in the extracting clinic. Dr. Merrifield and Dr. Talbot.

SENIOR YEAR

f. *Lecture-recitation*—Surgical bacteriology; inflammation; suppuration; wounds; hemorrhage; necrosis; chronic osteitis; disease of the maxillary sinus, resection of roots; tetanus; ankylosis; arthritis; facial neuralgia; fractures; dislocations; extraction of teeth; malposition of third molars; impacted teeth; replantation, transplantation, and implantation of teeth; cleft palate and harelip; affections of the

lips, tongue, and mouth; tumors; odontomes; ranula; cysts; aneurisms. One hour a week throughout the year. Professor Gilmer, Dr. Meyer, Dr. Merrifield, and Dr. Talbot.

g. *Surgical Clinic*—Two hours a week throughout the year. Professor Gilmer, Professor Potts, Dr. Meyer and Assistants. Nurses from St. Luke's Hospital. The after-treatment of cases will be by students, under direction of Professor Gilmer.

h. *Special Surgical Clinic*—Each section, one hour a week for five weeks. Dr. Meyer.

i. *Clinic in the Extraction of Teeth*—Special extraction clinic for each section, one hour a week for five weeks. Dr. Merrifield and Dr. Talbot.

j. *Lecture*—Anesthetics*—Historical review; state of the patient; nature of operation; choice of anesthetic; prolonged dental operations; circumstances of administration; examination of patients; general anesthetics; local and regional anesthetics, dangers of anesthesia; ether, chloroform, nitrous oxid; nitrous oxid and oxygen for anesthesia and analgesia; conductive anesthesia. One semester. One hour a week. Professor Potts.

k. *Clinical Administration of Anesthetics*—Oral surgery clinic. Two hours a week. Professor Potts and Assistants.

l. *Clinical Demonstrations of Nitrous Oxid and Novocain Anesthesia*—Daily in extracting clinic. Dr. Merrifield and Dr. Talbot.

m. *Radiography*—Eight lectures† and daily clinical instruction. Dr. Leach and Assistants.

Orthodontia

PROFESSOR SELLERY

JUNIOR YEAR

a. *Lecture-recitation—General Principles in Orthodontia*—Taking impressions and making models; fitting of appliances. Causes of malocclusion; principles of treatment; methods of retention. The object of this course is to familiarize the student with the philosophy of the correction of malocclusion so that he may undertake practical cases at the earliest possible time. First semester. One hour a week. Professor Sellery.

*After 1918-19, this course will be given in the Junior year only.

†After 1918-19, the lecture course in radiography will be given in the Junior year only.

b. *Laboratory*—Constructing and tempering taps and dies of steel; drawing wire and tubing suitable for the construction of orthodontia appliances. Making of pinch bands, clamp bands and retainers; application of these to models on the manikin. First semester. Three hours a week for eight weeks. Dr. McClain.

SENIOR YEAR

c. *Lecture-recitation—Occlusion and Facial Art*—Etiology, classification, diagnosis of malocclusion. The alveolus and alveolar processes, the periodontal membranes, and use of models. First semester. One hour a week. Professor Sellery, Dr. Buckley and Dr. McClain.

d. *Lecture-recitation—Regulating Appliances, Angle, Guilford, Knapp*—Anchorages, jack screws, levers, traction screws, extension arch and combinations, split plates, reciprocal anchorages, retention. Illustrated with models, with movable teeth and enlarged appliances. Stereopticon views, illustrating progressive regulation and final fixation. Second semester. One hour a week. Professor Sellery, Dr. Buckley and Dr. McClain.

e. *Clinic*—Open to students throughout the year for the correction of cases in practice. Professor Sellery, Dr. Buckley, and Dr. McClain.

f. *Orthodontia Clinic*—Each section one hour a week for five weeks. Professor Sellery.

Pathology, General

PROFESSOR POTTS

JUNIOR YEAR

a. *Lecture-recitation—Etiology of Disease*—Disorders of nutrition and metabolism; diabetes; fever; general circulatory disturbances; local hyperemia; local anemia; hemorrhage; embolism; infarction; thrombosis; retrogressive processes; atrophy; infiltrations and degenerations; necrosis; inflammation; progressive tissue changes; neoplasms; infections; granulomata; bacteria, and diseases caused by them. One hour a week throughout the year. Professor Potts, Dr. Bower and Dr. McClurg.

b. *Laboratory*—Second semester. Class divided into sections, each section three hours a week. Recitations during laboratory hours. Professor Potts and Dr. Bower.

Physics

MR. GURSLÉE

FRESHMAN YEAR

This course in general physics is selected from the first year of college physics. As a preparation for it, the student should have a good understanding of high school physics. The first few weeks of the course will be devoted to selected problems in algebra and trigonometry.

a. *Lecture-recitation*—Kinematics, general properties of matter, special properties of matter, waves, sound, heat, magnetism, electricity, light, optical instruments. One hour a week throughout the year. Mr. Gurslee.

b. *Laboratory*—Studies of the subjects covered in the lecture-recitation course. First semester. One three-hour period each week. Mr. Gurslee.

PROBLEMS IN DENTAL PHYSICS

A number of important problems in dental physics will be included in the courses in operative and prosthetic dentistry. These will include measurements of the force of the bite, the force required to chew various foods, tests of finger power, the force required to condense cohesive gold, the hardness of various filling materials, shrinkage and expansion of amalgams, shrinkage and expansion of plaster, the force used in closing flasks, etc.

Physiology

PROFESSOR WIGGIN

SOPHOMORE YEAR

a. *Lecture-recitation*—The structure of the elementary tissue; the chemical composition of the body; the blood; the circulation of the blood. First semester. Two hours a week. Professor Wiggin, Dr. Rovelstad, and Dr. Renn.

b. *Lecture-recitation—Respiration*—Secretion; food digestion; metabolism; nutrition and diet; animal heat; excretion; muscle; nerve physiology; production of voice. Second semester. Two hours a week. Professor Wiggin, Dr. Rovelstad, and Dr. Renn.

c. *Laboratory*—Studies of muscles, circulation and respiration. Class divided into sections, each section one three-hour period a week throughout one semester. Professor Wiggin, Dr. Matteson, and Assistants.

JUNIOR YEAR

d. *Lecture-recitation—The Central Nervous System—Brain; spinal cord; reproductive organs; development.* One hour a week throughout the year. Professor Wiggin, Dr. Rovelstad, and Dr. Renn.

Physical Diagnosis

PROFESSOR WIGGIN

JUNIOR YEAR

a. *Lecture-recitation—Studies of the various parts of the body, technique, and general diagnosis.* The pulse, chest, heart, valvular disease and other heart lesions. The lungs and pleural cavity. Diseases of stomach, pancreas, liver, intestines, spleen, kidneys. The bladder, rectal and genital organs. The blood, joints, nervous system. Second semester. One hour a week. Professor Wiggin.

b. *Laboratory—Class divided into small sections, each section one hour a week during four weeks.* Professor Wiggin.

Prosthetic Dentistry*

PROFESSOR PROTHERO, PROFESSOR KENNEDY, PROFESSOR STOUT,
AND DR. RIDGWAY

FRESHMAN YEAR

a. *Lecture-recitation—Prosthetic Technics—*This course covers the fundamental principles of denture construction and crown and bridge work, and accompanies the laboratory course. One semester. Dr. Ridgway.

b. *Laboratory—*Impression taking, model constructing, occluding, waxing, flasking; packing, vulcanizing, and finishing partial and full artificial dentures. Construction of crowns and dummies, all metal, and metal and porcelain; assembling individual crowns and dummies to form bridges. Class divided into sections, each section nine hours a week throughout the year. Dr. Ridgway and Assistants.

*In the courses in Prosthetic Dentistry scheduled for the several classes in 1918-19, there are certain duplications, necessitated by the changes made from the former three-year to the present four-year course. These duplications will be eliminated as each class advances. In the Senior year of the four-year course, considerable time will be devoted to seminar work and thesis writing.

SOPHOMORE YEAR

c. *Lecture-recitation—Metallography*—A descriptive course on the nature and physical properties of metals, especially those used in dentistry, with fundamental principles of their uses; the manipulation of metals, swaging, annealing, solders and soldering, welding, tempering. First semester. One hour a week. Professor Stout and Dr. Ridgway.

d. *Laboratory*—Construction of dies and counter dies; swaging metal bases of German silver; attaching teeth by soldering and by vulcanite; construction of crowns and dummies, all metal, and metal and porcelain; assembling individual crowns and dummies to form bridges. First semester. Class divided into sections, each section nine hours a week. Dr. Ridgway and Assistants.

e. *Lecture-recitation*—The physical properties of plaster of Paris and other materials employed in prosthesis. Muscles of mastication; force of the bite; movements of the lower jaw; natural arrangement and occlusion of artificial teeth. Second semester. One hour a week. Professor Stout and Dr. Ridgway.

f. *Laboratory*—Construction of full metal and partial metal dentures, with teeth attached by soldering and by vulcanite; construction and application of clasps to partial dentures; advanced work in crowns and bridges. Second semester. Class divided into sections, each section nine hours a week. Dr. Ridgway and Assistants.

JUNIOR YEAR

g. *Lecture-recitation*—Review of technique principles outlined in previous courses; application to practical operations in the clinic. The physical properties of plaster of Paris and other materials employed in prosthesis. Muscles of mastication; force of the bite; movements of the lower jaw; natural arrangement and occlusion of artificial teeth. One hour a week. Professor Prothero, Professor Stout, and Dr. Ridgway.

h. *Laboratory*—Construction of full metal and partial metal base dentures, with teeth attached by soldering and by vulcanite; construction and application of clasps to partial dentures; advanced work in crowns and bridges. Class divided into sections, each section three hours a week. Professor Stout and Assistants.

i. *Prosthetic Clinic*—Each student is required to carry to completion for patients a number of practical cases, representing each of the various classes of prosthesis, amounting to at least one hundred and fifty points in crowns and bridges and one hundred and fifty

points in denture construction. Professor Prothero, Professor Kennedy, and Assistants.

SENIOR YEAR

j. *Lecture-recitation*—Summary of recent methods and appliances; application of porcelain in prosthesis; porcelain crowns; porcelain bridges, full porcelain dentures; gold casting applied to crowns and bridges; removable bridges; repairs to crowns and bridges; review of anatomical occlusion; cleft palate appliances, splints for fractures. One hour a week. Professor Kennedy and Dr. Sholes.

k. *Laboratory*—Cast aluminum base dentures; celluloid dentures; banded Logan crowns; baked porcelain crowns; porcelain bridges; continuous gum dentures. Dr. Ridgway and Assistants.

l. *Prosthetic Clinic*—Practical pieces of prosthetic work of all varieties made and fitted for patients in the clinic. The preparation of roots for crowns and the abutments of bridges; making and setting crowns and bridges. The minimum requirement is two hundred points in crowns and bridges and two hundred points in dentures. Professor Prothero, Professor Kennedy, and Assistants.

m. *Special Prosthetic Clinic*—Each section one hour a week for five weeks. Professor Prothero.

Technical Drawing

FRESHMAN YEAR

a. *Laboratory*—This course is planned to give the student training in drawing which will enable him to understand more readily and to portray more clearly the technical features of many problems presented in the dental course and in practice. Second semester. One three-hour period a week.

Clinics

The Operative, Prosthetic, Orthodontia, Extraction and Radiographic clinics are open to students' practice from 9 A.M. to 5 P.M. each week day during the school year, as well as during the summer vacation. There is at all times an abundant number of patients. It is intended that this clinical practice shall be as much like an actual dental practice as possible. The development of the ability to obtain and hold a practice, the observance of professional courtesy toward patients, so essential to success, is regarded equal in importance to the development of manipulative ability.

General Statements

REQUIREMENTS FOR A DEGREE

The degree of Doctor of Dental Surgery is conferred upon students recommended therefor by the Faculty of the School. Candidates are recommended who have attended the required courses of lectures, who have passed satisfactorily all required examinations in the subjects of study; who have completed the required clinical and laboratory work; who in the judgment of the Faculty are of fit moral character and are twenty-one years of age, and who have discharged in full all financial obligations to the University.

HONORS

A dental scholastic honor society, the Omicron Kappa Upsilon, was organized in 1916, upon the initiative of Northwestern University Dental School.

Membership is awarded to students who throughout their dental course have met every requirement without condition or failure, and whose record of grades earned during their entire course gives them highest rank. Twelve per cent of the graduating class of each year can achieve the honor of such membership.

SUMMER CLINICS

The clinic rooms will be open all the year for the benefit of students who may wish to gain greater experience in clinical practice under competent supervision. The number of demonstrators during the summer will be ample for the class that may choose to remain at the school. The clinical material is abundant, and an excellent opportunity is afforded for clinical practice.

CLINICAL MATERIAL

The value and adequacy of the clinical instruction and experience in practice to students is inestimable. The extent of it can be best understood by an examination of the subjoined condensed tabular statement, extracted from the Examiner's report for the year 1917, showing the number of persons applying for clinical service.

1917	GENERAL	SPECIAL	TOTAL
January	953	1,012	1,965
February	908	730	1,638
March	983	976	1,959
April	907	797	1,704
May	929	551	1,480
June	680	348	1,028
July	460	255	715
August	858	338	1,196
September	1,180	505	1,685
October	1,162	979	2,141
November	981	847	1,828
December	661	607	1,268
	10,662	7,945	18,607

The special patients are assigned to such students of their acquaintance as they ask to have take care of their cases, while the general patients are assigned by the Examiner to such students as need the particular experience and practice that their cases involve. Many of these general patients have come to the school for a number of years and continue to come in the same manner as they would go to the office of a dental practitioner. The school has thus acquired a very large clinic, really large enough for the instruction of a fairly large class of students, but the students are encouraged to have their friends ask for their especial services, as a step in the direction of the teaching of practice building.

The operations performed for these 18,607 patients during the year included the following:

8,832 gold fillings.	6,296 local anesthetics.
2,715 gold inlays.	71 orthodontia cases.
8,881 amalgam fillings.	17,235 radiographs, mouth films.
1,492 cement fillings.	1,974 vulcanite dentures.
537 pulps devitalized.	13 gold dentures.
1,594 pulps removed—cocain.	13 aluminum dentures.
733 dead pulps removed.	25 Watt's-metal dentures.
90 abscess treatments.	621 dentures repaired.
268 root canal treatments.	333 gold crowns.
3,108 root fillings.	382 Richmond crowns.
7,331 scalings, and peridental	129 detachable pin crowns.
membrane treatments.	162 cast base crowns.
965 surgical treatments.	6 other crowns.
23,826 teeth extracted.	686 bridges.
821 gas administrations.	795 crown or bridge repairs.

TEXT-BOOKS

Text-books and reference books will be on sale in the Library of the school at publishers' prices. There will be a small profit from the sale of these books, which will be used for the benefit of the library. Each student will be required to have the books designated below before participating in either recitation or laboratory exercises. Many reference books in the library may be used as needed.

FRESHMAN YEAR

Anatomy—Cunningham.
Cunningham's Dissecting Manual, Vol. 1.
Dental Anatomy—Black.
Operative Dentistry—Black.
Prosthetic Dentistry—Prothero.
Inorganic Chemistry—Gordin.
Exercises in Chemical Laboratory—McPherson & Henderson.
Histology—Bailey (1914).
College Zoology—Hegner.
General Physics—Crew.
Freshman English—Young.
The English Familiar Essay—Bryan and Crane.
Medical Dictionary—Stedman.

SOPHOMORE YEAR

Anatomy—Cunningham. (Same as Freshman year.)
Cunningham's Dissector—Head, Neck and Thorax.
Operative Dentistry—Black. (Same as Freshman year.)
Prosthetic Dentistry—Prothero. (Same as Freshman year.)
Histology—Bailey. (Same as Freshman year.)
Dental Histology and Embryology—Noyes.
Physiology—Howells.
Chemistry, Organic—Gordin.
Bacteriology—McNeal.
Medical Dictionary—Stedman. (Same as Freshman year.)

JUNIOR YEAR

Operative Dentistry—Black. (Same as Freshman year.)
Prosthetic Dentistry—Prothero. (Same as Freshman year.)
Dental Pathology—Black.
Physiology—Stewart.
Materia Medica—Prinz.
Pathology—Adami & McCrea.
Dental Histology and Embryology—Noyes.
Physical Diagnosis—Cabot.
Anesthesia—Fischer.
Medical Dictionary—Stedman. (Same as Freshman year.)

SENIOR YEAR

Operative Dentistry—Black. (Same as Freshman year.)
Prosthetic Dentistry—Prothero. (Same as Freshman year.)
Dental Pathology—Black.
Oral Surgery—Blair.
Orthodontia—Angle.
Dental Ethics and Jurisprudence—Noyes.
Anesthesia—Fischer.
Medical Dictionary—Stedman. (Same as Freshman year.)

INSTRUMENTS

The instruments essential to the students in the several departments of the school have been carefully studied and determined. Much care has been taken in the selection of the instrument sets that the variety of forms may be sufficient for the student's needs without being excessive. Close study of this subject and long, careful observation of students and the progress they make in the attainment of manipulative skill show their progress to be closely related to their instrument equipment. Therefore this school must demand that the instrument sets *required* be obtained by each student as a condition to his continuance in school work.

In operative dentistry it is found that a close adherence to the formula plan, in the study of cutting instruments particularly, is essential in teaching the important subject of cavity preparation, and this will be carried out critically in all the departments of the school. This teaching is begun in the technic classes and the same lines of instruction are followed progressively by teachers and demonstrators in all of the departments to the end of the Senior year, the same instrument sets being used throughout the course of study.

In prosthetic dentistry and in the several laboratories a similar care as to instruments is maintained.

The instruments in the list are *required* because they are essential to the student's progress, and students must provide them. *Students should not bring with them, nor purchase, instruments of other patterns, for they cannot be received as equivalents of the required sets.* They are the same as those that have been required in former years. No student is required to make changes in his instrument sets during his four years' course, and these instruments form his instrument equipment for entering practice after graduation.

INSTRUMENTS AND APPLIANCES ARE REQUIRED to be of form and quality approved by the school. For the year 1918-19 the School has arranged with several reliable Dental Supply Houses to furnish the required equipment for each class in sealed packages, and these packages will be delivered through a representative of this School. Each student is charged for the complete equipment of instruments, appliances and books, all of which will be delivered at the time of payment of tuition.

INSTRUMENTS REQUIRED IN 1918-19

FRESHMAN YEAR

All except those marked "Specials for Freshmen" are required throughout entire four year course.

OPERATIVE OUTFIT

48 Cutting Instruments, the University Set.

ACCESSORIES.

- 1 Explorer, No. 3.
- 1 Hand Mallet, No. 5.
- 1 Arkansas Stone, $2 \times 5 \times \frac{3}{8}$ inches.
- 1 Bottle of Oil.
- 3 Boxes Tapered Polishing Strips, coarse, medium and fine grits.
- 2 Broach Holders, metal handles.
- 1 Alcohol Lamp, with annealing tray.
- 1 Lowell Pin Vise.
- 1 Boley Millimeter Gauge.
- 1 Pocket Lens, two glasses.

SPECIALS FOR FRESHMEN.

- 1 Work Box.
- 1 Card Board arranged for tooth sections.
- 1 Card Board arranged for instruments.
- 1 Spool Black Silk.
- 12 Small Wood Blocks for mounting.
- 6 Ivory Carving Blocks.

- 1 Stick Black Sealing Wax.
- 1 Piece Brass Tubing for cleaning files, $\frac{3}{8} \times 6$ inches.
- 50 Pieces Brass Wire, $4\frac{1}{2}$ inches long, 13 gauge.
- 1 Instrument Roll.
- 1 Package Barbed Root Broaches, assorted.
- 1 Package Smooth Broaches.
- 1 Box Piano Wire, length 6 in., gauge 25.
- 1 Grobet File, half round, 5 in., No. 1.
- 1 Grobet File, half round, 5 in., No. 3.
- 1 Straight Chisel 50.
- 1 Book Transparent Water Colors.
- 2 Camel's Hair Brushes, No. 1 and No. 7.
- 2 Carborundum Stones, Nos. 307, 310, coarse grit.
- 1 Revolving Head Engine Bur Holder.
- 1 Each Engine Burs—
 round, 12, 16, 20 mm. (Nos. 3, 5, 7).
 inv. cone, 12, 14 mm. (Nos. 36, 37).
 fissure, 16, 20 mm. (Nos. 60, 62).

PROSTHETIC OUTFIT

- 1 Plaster Bowl, "B."
- 1 Plaster Spatula, No. 17.
- 1 each Impression Trays, Uppers Nos. 2, 22.
- 1 each Impression Trays, Loweres Nos. 3, 25.
- 1 Snow New Century Occluding Frame.
- 1 Snow's Face Bow.
- 3 Snow Bite Locks.
- 1 box Pink Wax.
- 1 Prothero's Wax Spatula.
- 1 iron Vulcanite Flask, large size.
- 1 Flask Wrench, No. 10.
- 1 Vulcanite File, D. E., half round, 8 inches.
- 4 Wilson Vulcanite Trimmers, Nos. 1, 2, 4 and 5 special (Kingsley blade).
- 1 Felt Cone, large blunt.
- 1 Felt Wheel, No. 2.
- 1 each Brush Wheels, Nos. 4, 20, 26.
- 2 Lathe Chucks.
- 1 Carborundum Wheel, $1\frac{1}{2} \times \frac{1}{4}$ inch, grit "B."
- 1 Carborundum Wheel, $1\frac{1}{2} \times \frac{1}{4}$ inch, grit "D."
- 1 Crocker Lathe Arbor.
- 1 Mechanical Saw Frame.
- 1 dozen each Mechanical Saws, Nos. 00, 2.
- 1 pair Plate Shears, No. 1.
- 1 pair Flat-nosed Pliers, $4\frac{1}{2}$ inches.
- 1 pair Prothero's Contouring Pliers.
- 1 Hickory Stick, 4 in. long, $\frac{3}{8} \times \frac{1}{4}$, tapered to $3-16 \times \frac{1}{8}$.
- 1 Horn Mallet.
- 1 Plate Punch No. 1.
- 1 Solder Tweezers, "A."
- 1 Solder Tweezers, "L."
- 1 pair Solder Pliers, long beaks.
- 1 Prothero's Plate Burnisher.
- 1 Compound Blow Pipe.
- 1 Asbestos Soldering Block, No. 2.
- 1 Borax Plate.
- 1 Plate File, Grobet, half round, 5 inches, No. 3.
- 1 Gas Burner, No. 12, with spider.
- 18 inches Rubber Tubing, $\frac{1}{4}$ inch.
- 54 inches Rubber Tubing, $5/16$ inch.
- 1 spool Annealed Iron Wire, 36 gauge.
- $\frac{1}{2}$ lb. Special Asbestos.
- 1 Melotte's Mouldine Outfit.
- 3 lbs. Babbitt Metal.
- 3 lbs. Counter-Die Metal.
- 1 set of (2) Casting Rings.
- 1 can Calcar or Moulding Sand.
- 5 dwts. Silver Solder.
- $\frac{1}{2}$ lb. Modeling Composition.
- 3 sheets Sandpaper, No. 1.
- 4 sheets Red Rubber.
- 2 sheets Pink Rubber.
- 1 bottle Vaseline.
- 1 bottle Sandarac Varnish.
- 1 bottle Shellac Varnish.
- 1 Shaker Talcum Powder.
- 1 box Crystal Borax.
- 4 inches Steel Wire, $\frac{1}{4}$ inch diameter.
- 12 inches German Silver Wire, 16 gauge.
- 1 Wire Soldering Frame, 4×4 inches.
- 1 pair Pliers, No. 121.
- 1 piece of German Silver Plate, 22 gauge.
- 1 piece Aluminum Plate, 16 gauge.
- 1 pair Improved Ivory Cleavers, large size metal handles.
- 1 pair Prothero's Files with metal handles.
- 1 pair Crown and Collar Scissors, No. 11.
- 1 pair Improved Hawk-bill pliers.

ANATOMY LABORATORY

1 Dissecting outfit. Each student is required to have an apron, and a white cap and gown.

SOPHOMORE YEAR

All of these Instruments and Appliances are required in the Junior and Senior years also.

OPERATIVE OUTFIT

CUTTING INSTRUMENTS.

34 Instruments to complete the University Set of 48 Instruments.

GOLD FILLING INSTRUMENTS.

- 1 Automatic Mallet.
- 1 each Plugger Points.
 - 5-10- 3, Round.
 - 7½-10- 3, Round.
 - 9-10- 3, Round.
 - 5- 1- 0, Bayonet.
 - 7½- 3- 0, Bayonet.
 - 10x 5- 3- 3, Parallelogram.
 - 5x10- 3- 3, Parallelogram.
 - 12x 6- 6-10, Parallelogram.
 - 6x12- 6-10, Parallelogram.
 - 20x 5- 2-18, Foot.
 - 15x 5- 5-12, Foot.
 - 15x 5- 3-18, Foot.
- 1 each Long Handle Pluggers.
 - 5-1-23 Round.
 - 5-2-23 Round.
- 1 pair Direct Stroke Quadrangle Foot Pluggers.
- 3 Long Handles, No. 4 Automatic Thread.
- 1 Black's Holding Instrument.

FINISHING INSTRUMENTS.

- 2 Finishing Knives, 12 and 18 angles.
- 4 Finishing Files, 6 and 94 angles.
- 1 Black's Saw Frame.
- 1 doz. Kaerber's Saws, one edge.
- 1 doz. Thread Saws.

AMALGAM PLUGGERS.

- | | |
|------------|------------|
| 35x15-7-12 | 10x30-7-12 |
| 15x35-7-12 | 30x10-7-12 |
| 35-7-12 | |
| 25-7-12 | |
| 15-7-12 | |

SCALERS.

"G. V. Black School Set of Scalers," 14 instruments, as follows:

- For Serumal Calculus.
- 1 pair of Peridental Explorers, 15-8-6, R. and L.
- 1 pair of Pull Scalers, 15, F. and B. (forward and backward curved blades).
- 1 pair of Pull Scalers, 15-8-6, R. and L.
- 1 pair of Pull Scalers, 15-8-12, R. and L.
- 1 pair of Push Scalers, 15-8-12, R. and L. For Salivary Calculus.

- 1 pair of Pull Scalers, Nos. 33 and 34.
- 1 Cleoid Scaler, 25.
- 1 Sickle Scaler, 20.

GOLD INLAY INSTRUMENTS.

- 1 Burnishing and Trimming Instrument.
- 1 pair R. and L. Trimming Knives.
- 1 Casting Ring, sprue and former (Taggart).
- 1 box Taggart Wax.

ENGINE AND INSTRUMENTS.

- 1 Cord Driven Dental Engine.
- 1 Contra-angle Hand-piece.
- 1 each Round Burs

Sizes	12	16	20
Nos.	3	5	7
- 1 doz. each Inverted Cone Burs

Sizes	8	10	12	16
Nos.	34	35	36	38
- 2 each Fissure Burs, square end

Sizes	10	12	16
Nos.	57	58	60
- 1 each Fissure Burs, round end

Sizes	10	12
Nos.	57	58
- 1 each Finishing Burs, round

Sizes	25	40
Nos.	204	201
- 1 each Finishing Burs, oval

Sizes	25	40
Nos.	219	222
- 1 each Drills, bi-beveled

Sizes	12	16
Nos.	102	104

Sizes of Burs are given in tenths of millimeters.

- 1 Porte Polisher, No. 307.
- 1 box Wood Polishing Points.
- 6 boxes Stiff Polishing Brushes.
- 2 Mandrels, No. 303.
- 1 Mandrel, Morgan-Maxfield.
- Burs for Contra-angle Hand-piece.
- 6 each Inverted Cone, 8, 10, 12 mm.
- 1 each Fissure, 10, 12, 16 mm.
- 1 Porte Polisher.
- 1 Mandrel, 303.
- 1 Morgan-Maxfield Mandrel.
- 1 box each Emery Paper Disks, ½ inch, grits Nos. 00, 1.
- 1 box each Sand Paper Disks, ⅝ inch, grits Nos. 00, 1.
- 1 box each Cuttlefish Paper Disks, ½ inch and ⅝ inch.
- 1 Wire Brush for cleaning broaches, all brass.

ACCESSORIES.

- *1 "Northwestern" Instrument Case, new model, 1916-17.
- 1 Mouth Mirror, No. 3.

*This specially designed Instrument Case, constructed of steel, may be purchased for \$15.00. If desired, the school will, at the end of the completed course, upon the return of the case in good condition, refund \$7.00 to the purchaser.

- 1 pair "College" Cotton Pliers.
- 1 each Explorers, R. and L. No. 13, 14.
- 1 each Burnishers, 2, 26, 28.
- 1 pair Foil Carriers, No. 12.
- 1 Cement Spatula, No. 24.
- 1 Mixing Tablet, plate glass, 2x5x $\frac{1}{4}$.
- 1 Mortar and Pestle, No. 5.
- 1 Root Canal Plugger, No. 35.
- 1 Root Canal Plugger, No. 36.
- 1 Box Gutta-Percha Root Canal Points, assorted.
- 1 Box Bibulous Paper Points.
- 1 Sheet Steel for Matrices.
- 6 Perry Separators, A, B, C, D, E, F, with wrench.
- 1 Rubber Dam Punch.
- 1 Universal Rubber Dam Clamp Forceps.
- 1 pair Special Third-Molar Rubber Dam Clamps, right and left.
- 1 each Rubber Dam Clamps, Nos. 18, 26.
- 1 pair Rubber Dam Clamps for Roots.
- 1 Hatch Cervical Clamp.
- 1 Rubber Dam Holder.
- 2 Rubber Dam Weights.
- 1 Water Syringe, No. 22, special nozzle.
- 1 Chip Syringe, with valve in the back end. Nozzle same as 22.
- 1 Water Glass, not over 3 inch diameter.
- 1 Special bracket for water glass.
- 1 package orange wood sticks.
- 1 Grobet File, half round, 3-inch, No. 2.
- 1 pair Straight Scissors, 5-inch.
- 1 Opal Glass Tray, to hold six broaches.
- 6 Broach Holders, metal handles. (These in addition to two required in Freshman year.)
- 2 Bottles for used broaches, 3 inches long by $\frac{1}{2}$ or $\frac{3}{4}$ inch diameter outside.
- 1 Glass Slab for sterilizing broaches.
- 3 Opal Glass Medicine Dishes, $1\frac{3}{4} \times 1\frac{1}{2} \times \frac{1}{2}$.
- 1 Bottle Alcohol, with pipette through cork.
- 3 boxes Pink Base-plate Gutta-percha. 50 pieces $\frac{1}{4}$ inch square, 25 pieces $\frac{1}{2}$ inch square, 25 pieces $\frac{1}{2} \times 1$ inch.

- 1 spool of Waxed Floss, 100 yards in special container.
- 1 package Absorbent Pellets, 3 sizes.
- 1 package Cotton Rolls, 2 sizes.
- 1 package Gauze.
- 1 package Absorbent Cotton, 1 oz.
- 1 Instrument Sterilizing Bag.

PROSTHETIC OUTFIT*

- 1 pair Prothero's Contouring Pliers.
- 1 Hickory Stick, 4 in. long, $\frac{3}{8} \times \frac{1}{4}$, tapered to 3-16x $\frac{1}{8}$.
- 1 Plate Punch No. 1.
- 1 Solder Tweezers, "A."
- 1 Solder Tweezers, "L."
- 1 pair Solder Pliers, long beaks.
- 1 Prothero's Plate Burnisher.
- 1 Compound Blow Pipe.
- 1 Asbestos Soldering Block, No. 2.
- 1 Borax Slate.
- 1 Plate File, Grobet, half round, 5 inches, No. 3.
- 54 inches Rubber Tubing, 5/16 inch.
- $\frac{1}{2}$ lb. Special Asbestos.
- 1 Melotte's Mouldine Outfit.
- 3 lbs. Rabbitt Metal.
- 3 lbs. Counter-Die Metal.
- 1 set of (2) Casting Rings.
- 1 can of Calcar or Moulding Sand.
- 5 dwts. Silver Solder.
- 1 box Crystal Borax.
- 4 inches Steel Wire, $\frac{1}{4}$ inch diameter.
- 12 inches German Silver Wire, 16 gauge.
- 1 Wire Soldering Frame, 4x4 inches.
- 1 pair Pliers, No. 121.
- 1 piece of German Silver Plate, 22 gauge.
- 1 piece Aluminum Plate, 16 gauge.
- 1 pair Improved Ivory Cleavers, large size metal handles.
- 1 pair Prothero's Files with metal handles.
- 1 pair Crown and Collar Scissors, No. 11.
- 1 pair Improved Hawk-bill pliers.

JUNIOR YEAR

These Instruments and Appliances, except those marked "Special for Juniors only," are required in the Senior year.

SURGICAL CASE.

- 1 Leather Pocket Case.
- 1 Scalpel, $1\frac{1}{2}$ -inch blade.
- 1 Bistoury, $1\frac{1}{4}$ -inch blade.
- 1 Scalpel, $\frac{3}{4}$ -inch blade.
- 1 Keratome, 5/16x5/16 blade.
- 1 Curette, disk, 5/16 diameter.
- 1 Periosteotome.
- 1 Tenaculum.
- 1 Sharp Steel Probe.
- 1 Silver Probe.
- 1 Grooved Director.
- 1 Exploring Needle.
- 1 pair Tissue Forceps.
- 1 pair Artery Forceps, 4 $\frac{1}{2}$ inch.
- 1 pair Surgeon's Scissors, 4 $\frac{1}{2}$ inch, straight

PORCELAIN INSTRUMENTS.

- 1 pair "K" Pliers.
- 1 pair Ball Pliers.
- 4 Thompson Burnishers, Nos. 3, 4, 5 and 8.
- 2 Camel's Hair Brushes.

SPECIAL FOR JUNIORS ONLY.

- 1 Martin Screw Plate, holes Nos. 0 to 12 series "B."
- 1 Draw Plate, special.
- $\frac{1}{2}$ lb. German Silver Plate, 28 gauge.
- 12 inches German Silver Wire, 14 gauge.
- 12 inches German Silver Wire, 16 gauge.
- 12 inches Stub's Steel Wire, 93-1000.

*All of these items are included in the Freshman Prosthetic outfit for 1918-19.

Fees and Expenses

FOR THE YEAR 1918-1919

Matriculation Fee\$5.00

This fee is to be paid when a student first matriculates in any department of the University, and covers subsequent matriculations in the same or other departments. It is to be paid but once and is in no case returnable.

Registration Deposit, each year.....\$5.00

This deposit must be paid when names are enrolled for classes. It will be credited on the tuition fee for the current year. It is not returnable in case the student fails to attend. If the first matriculation of the student is in the Dental School, the matriculation fee will serve as a registration fee for that year, but the matriculation fee is not credited on the tuition fee.

Tuition Fee, each year.....\$200.00

This fee includes the registration deposit, but not the matriculation fee. It includes all laboratory fees for equipment, supplies, manuals and notebooks. Each student is provided with a locker for the protection of his private property. The student must furnish his own lock.

Final Examination Fee, for Seniors.....\$10.00

Time of Payment of Tuition—The tuition fee is payable at the beginning of the school year. It may be paid in two installments, \$100.00 at the beginning of the first semester and \$100.00 at the beginning of the second semester. If installments are not paid within ten days of the opening of the semester, \$2.00 will be added, but in no case may payment be deferred more than thirty days. Payments should be made in currency or in Chicago exchange drawn to the order of Northwestern University. Out-of-town personal checks are not accepted.

Refunds—No fees for tuition will be refunded except in cases of sickness. If on account of serious illness a student withdraws from the School before the end of the school year, a share of his tuition fee may be refunded, provided he secures from the Dean a statement of honorable standing, and from a physician a certificate that his health will not permit him to remain in attendance. No application for a refund will be considered unless made within thirty days after withdrawal from the School on account of sickness.

COST OF BOOKS AND EQUIPMENT

The amounts given below are as nearly correct as can be determined in advance, owing to the changes which may occur in prices or in the selection of books, instruments and other equipment. As many of the books and almost all of the other equipment listed for each of the first three years are required in the succeeding years, the figures given apply only to those students entering this school as Freshmen. Students entering with advanced standing, or by transfer from other Dental Schools, will be required to purchase whatever may be necessary of the books and equipment listed for preceding years.

For the year 1918-19, the School will supply the books and equipment for the several classes. On account of the difficulty of securing equipment, orders were placed far in advance, so that students are assured of having everything necessary for the pursuit of their work. In order to reduce the cost of equipment as much as possible, the School will supply certain items, such as student operating cases, etc., which the student will not need after graduation, upon a rental basis.

The student should come prepared to purchase the complete outfit of books and instruments at the opening of school, in addition to at least the first semester tuition.

ESTIMATE OF COST OF BOOKS AND EQUIPMENT FOR EACH CLASS
FOR THE YEAR 1918-1919

Freshman year, books as per required list, about.....	\$ 50.00
Instruments and other equipment, as per required list, about....	125.00
	<hr/>
	\$175.00
Sophomore year, books, about.....	\$ 20.00
Instruments and other equipment, about.....	240.00
	<hr/>
	\$260.00
Junior year, books, about.....	\$ 20.00
Instruments and other equipment, about.....	80.00
	<hr/>
	\$100.00
Senior year, books, about.....	\$ 25.00

ESTIMATE OF TOTAL EXPENSES FOR FOUR-YEAR COURSE FOR FRESH-
MEN ENTERING IN OCTOBER, 1918, DUPLICATIONS IN
ABOVE ESTIMATES BEING ELIMINATED

Freshman year, matriculation, tuition, books and equipment.....	\$ 380.00
Sophomore year, tuition, books and equipment.....	375.00
Junior year, tuition, books and equipment.....	250.00
Senior year, tuition, final examination fee, books and equipment.....	235.00
TOTAL.....	\$1,240.00

This is an average of about \$300.00 per year. The equipment includes practically everything required for a dentist's office, except dental chair and office furniture, so that while the expense for equipment in school is considerable, it should not be counted as a school expense, but rather as a part of the expense of office equipment. After the Sophomore year, the expense in addition to the tuition is small, so that the student is likely to be better prepared to meet the cost of office equipment at the time of graduation.

UNIVERSITY NOT RESPONSIBLE FOR PERSONAL LOSSES

The University is not responsible for the loss of any personal property belonging to any of the students in any building owned by the University, whether the loss occurs by theft, fire, or an unknown cause.

CHARGE FOR BREAKAGE

Students will be held responsible for unnecessary damage to or breakage of the apparatus, equipment, furniture or other property of the University.

STUDENTS' EXTRA FUNDS

Students who bring with them larger amounts of funds than their immediate requirements necessitate may deposit the same in the University business office, in the rotunda on first floor, and draw on this deposit from time to time as needed, under such regulations as may be prescribed.

BOARD AND ROOM

Rooms and board may be obtained at \$6.00 to \$9.00 a week. Rooms without board, furnished or unfurnished, may be had at \$6.00 to \$10.00 a month.

A department of the Y. M. C. A. is maintained in the University Building, which looks especially to the students' interest in this direction.

In case students are compelled to do some outside work to assist them while attending school, this department will also endeavor to secure such employment as the student may be able to do without detriment to his educational work.

THE UNIVERSITY DORMITORIES

The University dormitories are situated on the North Campus near the University Gymnasium, and within a five-minute walk to the Elevated trains with direct service to Chicago.

Applications for the reservation of rooms should be made to the Secretary of the Dental School and should be accompanied by a deposit of \$10.

Post-Graduate Course

The annual post-graduate course will begin on February 3rd, 1919, and continue four weeks. There will be two hours of lectures and six hours of laboratory courses, demonstrations or clinical work each day. A clinical operating room, and a laboratory for prosthetic work, porcelain and inlay work, entirely separate from those used by the regular students of the School, have been provided for post-graduate students, each of whom will have opportunity to do a specified amount of work in the laboratories and of operating in the clinic under direction of the instructors in charge of the various courses. Complete outfits of instruments, tools, and materials will be supplied by the School.

In this course especial attention will be given to the following subjects:

Oral Surgery—Acute infections of the mouth and their treatment; infections of the maxillary sinuses; fractures of the maxillary bones; tumors of the mouth; resection of roots, removal of impacted teeth, etc. Lectures and clinics. Professor Gilmer, Professor Potts, Dr. Meyer and Assistants.

Diseases of the Peridental Membrane—Chronic suppurative pericementitis and its treatment; focal mouth infections in relation to systemic disease. Work of the past few years in the Research Department of the School in the study of the pathology of the investing tissues of the teeth the basis for rational treatment; a thorough and practical system of examination and determination of plans of management of cases; methods of treatment radically different from those commonly employed; methods of prevention of the diseases of the peridental membrane will be presented. Professor Black, Dr. Hatton, Dr. Merrifield and Assistants.

Technic of Pulp and Root Canal Treatment—Recently gathered statistics show that a very small percentage of abscesses occur in cases in which good root fillings are made, and that abscesses occur in about 65 per cent of cases in which root fillings are not well made. It is therefore the duty of every dentist to bring his root canal technic up to the highest degree of efficiency. The technic presented in this course is thorough and definitely systematized. Those taking the course will have ample opportunity to gain practical experience in the special clinic, and all operations will be checked with radiographs. Professor Gethro, Dr. Lundquist and Assistants.

Operative Dentistry—Cavity preparation, technic for gold fillings, gold inlays, amalgam fillings. The principles of scientific cavity preparation will be discussed, and stress will be placed on the importance of thoroughly systematic procedures by each operator in order to get practical results in daily practice. Many of the finer details will be brought out in the operations in the post-graduate clinic. Professor Blackwell, Dr. Matteson and Assistants.

Prosthetic Dentistry—Porcelain jacket crowns, baked porcelain crowns, fixed and removable bridge-work, along most modern lines to conserve the pulps of teeth and prevent inflammations of the gingivae, and the construction of artificial dentures to secure anatomical occlusion will receive most attention in this course. Each member of the class will have opportunity to carry out work in the laboratory and to construct practical cases for patients. Professor Prothero, Dr. Stout, Dr. Ridgway and Assistants.

Orthodontia—Many cases of orthodontia are in progress in the School clinic at all times and these will be presented before the class each Saturday for discussion. A considerable number of these patients have appointments on Tuesdays and Thursdays, so that those who desire will have ample opportunity to study them. Lectures will also be given throughout the course. Professor Sellery, Dr. Buckley and Dr. McClain.

Anesthesia and Extraction of Teeth—This course will consist of a series of lectures and demonstrations on the administration of nitrous oxid and oxygen and the use of novocain. Demonstrations will be given in connection with the oral surgery clinics and daily in the extraction clinic. Those taking the course will have ample opportunity for practical experience, both in the uses of these methods of anesthesia and in the extraction of teeth. The extraction clinic is busy from 9 a. m. to 5 p. m. daily. Nearly 24,000 teeth were extracted during the year 1917. Dr. Hatton, Dr. Merrifield, and Dr. Talbot.

Dental Radiography—This course will consist of practical demonstrations in taking radiographs and in reading them. Thousands of films are mounted for study before illuminating boxes. This department is busy from 9 a. m. to 5 p. m. daily. Over 17,000 mouth films were made during the year 1917. Dr. Westaby and Assistants.

Dental Histology—A combined lecture and laboratory course in the study of those features of dental histology which are of the most practical value in the study of diseases of the peridental membrane and in operative dentistry. Professor Thomas and Professor Skillen.

Clinical Experience—The clinical material available is practically unlimited, and each practitioner taking the course will be supplied with patients for practical cases. A special operating room is fully equipped for the exclusive use of those taking the course.

POST-GRADUATE COURSE FEES

Matriculation fee	\$ 5.00
Tuition	100.00

Of this tuition fee, ten dollars is set aside for the Dental Research Fund of the School. The above fees cover the entire cost of the course; all necessary instruments, equipment, materials, etc., are furnished without additional charge. The tuition is the same, whether one desires to take all or only a part of the course. Those wishing to omit certain subjects will have opportunity to put extra time on others.

Military Service Course

If the war shall not have come to an end, a Military Service Course will be given, beginning February 3rd, 1919, and continuing four weeks, for those who may contemplate entering the Army or Navy Dental Corps, or who hold commissions, but have not been called to active duty.

The object of this course is to better prepare dentists for military service, especially in those features in which the dentist may be of assistance to the general or oral surgeon in the care of injuries of the jaws, face and neck. The need for men with this special training is likely to be very great. A similar course was given in February, 1918, and proved to be of material value to those who attended.

During the past school year, Northwestern University Dental School conducted two four-weeks courses for officers assigned from the Plastic and Oral Surgery Division of the U. S. Army, by direction of the Surgeon General. The military service course, here scheduled, will duplicate the official army courses as closely as possible.

This course will consist of two hours of lectures, and four to six hours of laboratory courses, demonstrations or hospital clinics each day. All instruments, equipment and materials for the several laboratory courses will be provided by the School. The schedule will include the following:

Anatomy—Dissection of the head and neck by members of
the class50 hours

<i>Surgical Anatomy and Operative Surgery</i> —Lectures and demonstrations on the cadaver; surgical anatomy of the face, mouth and jaws; ligation of the vessels of the neck; plastic surgery of the face, jaws and neck; plastics on skin and scars, suturing, transplantation of fat; bone and cartilage transplantation, nose and jaws.....	24 hours
<i>Infections and Inflammations</i> —Focal infections in general; chronic focal infections of mouth and jaws, acute infections of mouth, face and neck; bacteriology of mouth and jaw infections, gas gangrene, tetanus, etc.....	10 hours
<i>Gun Shot Injuries and Infections</i> —Treatment of open wounds; the various solutions; immediate closing of wounds; blood transfusion; foreign bodies in the pharynx, trachea, oesophagus	10 hours
<i>Fractures and Dislocations of the Jaws</i> —Causes and study of the anatomy of the parts; displacements; various methods of treatment; prevention of deformities; prosthetic restorations of nose and mouth parts; construction of various forms of splints by members of the class....	30 hours
<i>Anesthesia</i> —Lectures and demonstrations of both local and general anesthesia	5 hours
<i>Roentgenology</i> —Lectures and demonstrations.....	4 hours
<i>Extraction of Teeth</i> —Practical experience in extraction of teeth under both local and general anesthesia, by members of the class, time set aside for each.....	2 hours
Surgical clinics at Cook County, St. Luke's, Presbyterian, Wesley, Augustana, St. Joseph's, North Chicago Hospitals	40 hours

MILITARY SERVICE COURSE FEES

Matriculation fee	\$ 5.00
Tuition	100.00
Tuition, for dentists holding commissions in the army or navy, but not on active duty.....	60.00

Of the tuition fee, ten dollars is set aside for the Dental Research Fund of the School. The above fees cover the entire cost of the course; all necessary instruments, equipment, materials, etc., are furnished without additional charge.

For further information, address Northwestern University Dental School, 31 W. Lake St., Chicago.

Register of Students, 1917-1918

SENIORS

Ackemann, William Herman.	Illinois
Acker, Kemp Girard.	Pennsylvania
Aiken, George Harvey.	Illinois
Allen, Paul Emil.	Illinois
Baghdikian, Yeghia Boghos.	Armenia
Bailey, Allyn Collins.	Iowa
Barker, Harry P.	Canada
Bignell, Kenneth Alfred.	Wisconsin
Black, Hugh Edwin.	Texas
Borg, Fritz Herman.	Illinois
Bosma, Kathryn Bernice.	Iowa
Bowe, Clyde Carson.	South Dakota
Boyland, Charles Robert.	Indiana
Brasmer, William Otto.	Illinois
*Bresee, Thomas Frederick.	Montana
Burk, Robert Rex.	Illinois
Burman, Frank Phillip.	Illinois
Cann, Ivan Cyril.	Minnesota
Carmichael, Mary F.	California
Carpenter, George Sherburne.	Mich.
Cartwright, Glenn Edon.	Ohio
Chang, Sau Yee.	Hawaii
Coe, Harold Wesley.	Illinois
Collings, William Joseph.	Montana
Cooke, Ray S.	Wisconsin
Cramer, Myron F.	Minnesota
Creuzot, Percy Pennington.	Louisiana
Cuolahan, Paul Begoe.	Wisconsin
Currier, Clark Payne.	Illinois
Dahnke, Emil K.	Nebraska
Dalglish, Rolland Chester.	Utah
Davy, Reuben Roy.	Illinois
Deighton, Herbert Harper.	Utah
Deindoerfer, Charles Robert.	Ohio
Devery, Wilbert Francis.	Illinois
*Drehmel, William Lloyd.	Minnesota
Eberlein, Clarence Albert.	Minnesota
Edgren, Reuben Henry.	Michigan
Elfenbaum, Arthur.	Illinois
Erdahl, Henry A.	Minnesota
Fair, Ralph James.	Michigan
Fauerbach, Frederick William.	Wis.
Ferguson, Cecil O.	North Dakota
Fifield, Hugo Harrison.	Indiana
*Fischer, Ferdinand George.	Illinois
Fisher, Wilson Kelty.	Illinois
Fjelstad, Olin Calmar.	Wisconsin
Fluent, Stanley H.	Iowa
Foley, Claude James.	Canada
Fortney, Almon Daniel.	Wisconsin
Fouts, Willard H.	Illinois
Freud, Sidney Barker.	Illinois
Fried, Irwin Robert.	Illinois
Frink, Lila M.	South Dakota
Gates, Orie John.	Wisconsin
Gillis, Joseph Eugene.	Wisconsin
Godowsky, Ulysses Gilbert.	Illinois
Goodwin, Boyd Cooper.	Arkansas
Graffin, Lester Paul.	Illinois
Gurslee, Christian Bernard.	Minn.
Gutman, Morris Harold.	Georgia
Halverson, Arnold Eugene.	Wisconsin
Hamm, Wayne Lee.	Illinois
Hay, Edward L.	Indiana
Heisler, John C.	Missouri
Hellebo, Lloyd Frithiof.	Wisconsin
Henderson, Robert Ray.	Illinois
Hibbe, Harper Jerome.	Illinois
*Hinman, Donald McLennan.	Illinois
Hoerner, Harry John.	Illinois
Hoffman, Oscar H.	North Dakota
Holtzman, Clarence Weldon.	Illinois
Holz, Carl William.	Illinois
Hopkins, Joseph Anthony.	Illinois
Hurlstone, Frank James.	Illinois
Huscher, Fred George.	Illinois
Hutson, Philip.	Wisconsin
Jacobson, Irvin LeRoy.	Minnesota
Jaeger, Mrs. Bessie.	Illinois
Johannes, Gustav Charles.	Illinois
Johnson, Gustave E.	Illinois
Johnson, Howard Morton.	So. Dak.
Johnson, Max Magnus.	Washington
Johnson, William Joseph.	So. Dak.
Johnsten, John J.	Arkansas
Jonas, Arthur.	Montana
Jones, David Arthur.	Utah
Jones, William Walter.	Illinois
Kaffie, Malcolm Ellis.	Louisiana
*Kelly, John W.	Iowa
Kendrick, Kenneth Kernan.	Missouri
King, James Wilfred.	Oregon

*Matriculated but not in attendance.

Kozlou, Edward.....	Michigan
Kuhre, Martin G.....	Utah
Kulvinsky, Abraham.....	Illinois
Lindsey, Charles Frank....	Missouri
Lippert, Jacob Leopold.....	Illinois
Livingston, George Bernard..	Illinois
Lockwood, Hillyard Hanna..	Canada
Lowum, Franziska Leistad..	Norway
*Lyons, William J., Jr.....	Illinois
Maggid, Nathan Mayer.....	Illinois
Mann, Harry.....	South Dakota
Mazur, Florence Marquette..	Illinois
McAnlis, John Albert.....	Kansas
McGruer, Earl.....	North Dakota
McGruer, John James.....	North Dakota
McIntosh, Robert.....	Oregon
McLean, Harold Peter.....	British West Indies
McNulty, Cletus Joseph....	Illinois
Mead, Silas Frank.....	South Dakota
Meyer, John H.....	Minnesota
Miles, Colton Benjamin....	Canada
Miller, Jerome Jacob....	New York
Mitchell, James Herbert....	Canada
Moen, Norris	Wisconsin
Moen, Obed	Wisconsin
Montgomery, Earl Livingston..	Illinois
Montgomery, Edgar Morse...	Illinois
Moran, John Joseph.....	Illinois
Morison, William P.....	Canada
Moulton, Oscar Blair.....	Illinois
Myers, Benjamin.....	Illinois
Nelson, Edwin Christian..	Wisconsin
Newell, Andrew Jackson....	N. D.
Norgren, Carl Hjalmar....	Illinois
Oakland, Irwin Sylvester....	S. D.
O'Connor, Edward Thomas...	Minn.
*O'Connor, Urban P....	Washington
Oliver, Henry	Australia
Olshan, James Harold.....	Illinois
O'Rourke, Melrose Bernard...	Minn.
Oveson, Iver Anton.....	Illinois
Palmer, Earl.....	South Dakota
Pastoret, Al L.....	North Dakota
Payne, Charles William...	Montana
Pekarske, Albert Alfred....	Wisconsin
Peterson, Edwin Carl....	Wisconsin
Pool, Donald Arthur.....	South Dakota
Post, Robert Maxon.....	Wisconsin
Poundstone, Leon Harmon...	Oklahoma
Poyer, Walter Thomas.....	Illinois
Qualey, George R.....	Wisconsin
Quilling, Devan W.....	Wisconsin
Quinn, Emmett Martin.....	Illinois
Rader, Frank James.....	Indiana
Ralstin, Henry William....	Kansas
Randall, George Truman...	Nebraska
Rasmussen, William Louis..	Wisconsin
Ray, Herbert Scott.....	Illinois
Recob, Clifford Floyd....	Wisconsin
*Reed, George Shannon.....	Texas
Reid, Melville.....	North Dakota
Reinardy, Charles J.....	Wisconsin
Roberts, Arthur Llewellyn...	Illinois
Robinson, H. Parry.....	Illinois
Robison, Clifford LeClair...	Illinois
Rooks, William Duffield....	Canada
Root, Byron Lee.....	Illinois
Rosenblatt, James Samuel..	Illinois
Rowland, LeRoy Thomas....	Illinois
Rushing, John Shelton....	Arkansas
Sargeant, George Weld.....	Iowa
Sceerey, Aubrey Edward...	Indiana
Schlampp, John Waldo.....	Iowa
Schueller, Leo V.....	South Dakota
Schuman, Morris Charles....	Ohio
Schwab, William August....	Illinois
Scott, Clark Baron.....	Ohio
Scott, Otho E.....	South Dakota
Seeglitz, Albert Henry.....	Illinois
*Sherman, James Frank.....	S. D.
Sievert, Otto Herman A....	Wisconsin
*Smith, Charles Leroy.....	Illinois
Smith, Harry Edwin.....	Indiana
*Snoeberger, Paul Alfred....	Indiana
Spensley, Vincent Homer....	Iowa
Steffy, Guy George.....	Illinois
*Stephenson, Arthur Warren..	S. D.
Storberg, Carl Gustav.....	Minnesota
Sugrue, John Joseph.....	Illinois
Sweeney, Raymond Joseph...	Wash.
Thomas, Constantine J.....	Illinois
Thompson, Oscar Iver....	Minnesota
Thomson, James Herbert....	N. D.
Toppel, Isadore.....	Illinois
Tylman, Stanley Daniel....	Illinois
Ulrich, Jesse L.....	Indiana
Umbach, Myron Joseph....	Illinois
Varker, Ray Lee.....	Wisconsin
Vickers, Harvey H.....	Wisconsin

*Matriculated but not in attendance.

Von Ruden, Herman Anton....Wis.	Westerdahl, Frank Robbin.Minnesota
Wadleigh, Gerald Eugene.Wisconsin	Wilhermsdorfer, Jerome....Illinois
Waggoner, Parke Hammer..Illinois	Wilke, Herbert Fred.....Wisconsin
Warburton, William Leslie....Utah	Wills, Ellis L.....Wisconsin
Watters, Hugh William....Illinois	Wineburgh, Samuel.....New York
Wedell, Harold Godfrey....Illinois	Wishner, Max .....Illinois
Wehrheim, Lawrence Alexander.Ill.	Wollmann, Andreas Arnold...S. D.
Welch, Charles Haig.....Indiana	Wood, William .....Utah
Wells, Charles Raymond...Vermont	Young, Donald Rodolfo....Panama
Westaby, Henry P.....South Dakota	Zane, Kin Chow.....Honolulu
Westby, Peter M.....South Dakota	Zeis, Andrew W.....Minnesota

JUNIORS

Adams, Charles Henry.....Illinois	Cassutt, Lewis B.....Iowa
Akin, Hamilton Lee.....Illinois	Chapin, Walter Coolidge....Illinois
*Allan, Frederick Ralph..Wisconsin	Chlavin, David Norman....Illinois
Allen, Donald Messenger..Michigan	Cigrand, Elroy Franklin....Illinois
Amidon, Sherwood Delos..Missouri	Cochran, Dayton .....Iowa
Ammons, W. Vetis.....Kansas	Corbett, Marion Leroy.....Utah
Anderson, Orvel .....Utah	Culbertson, Harry .....Montana
Anshutz, Wade Bush.....Indiana	Curley, Harold Clifford..Minnesota
Applebaum, Albert .....Illinois	Dalitsch, Walter William....Illinois
Auerbach, Bernard .....Illinois	*Davis, DeWitt Clinton.....Iowa
*Austin, Paul Mills.....Ohio	Davis, Harry Glennis.....Indiana
Bakowen, Goodwin.....Illinois	De Ano, Rocco James.....Illinois
Ball, Frank, Jr.....Iowa	Dietrich, M. Chan-Don.....Iowa
Ball, Walter Carlyle.....Illinois	Dix, Ray McKinley.....Illinois
Bantle, Leo P.....Minnesota	Dodge, Watson Arthur.....Kansas
†Bayne, Walter Leon.....Illinois	Driscoll, Roe .....Indiana
Beal, Nelson .....Utah	Eastwold, Conrad Engvold...Minn.
Beck, Walter Roy.....Indiana	Eberhart, John Henry....Montana
Berndt, Arthur Walter.....Illinois	Elliott, Nels Manley.....Illinois
Berg, Gordon Gustaf.....Illinois	Evans, Ralph Howard.....Illinois
Berry, Henry William.....Illinois	Farrell, Joseph Leonard...Indiana
Berry, Joseph Orion.....Illinois	Farrell, Neil Charles..North Dakota
Bishop, Evard Allen.....Montana	Fein, Louis Julius.....Indiana
Blumenschein, John Peter...Wash.	*Fey, Lawrence Christopher..Texas
Bollinger, Clarence Floyd....S. D.	Finnegan, William Henry...Illinois
Bowden, Paul Herbert....Montana	Fisher, Lloyd Ellsworth.....S. D.
Boyden, Carl H.....South Dakota	Fisher, Winfield Stitt.....Illinois
*Brady, Harold James....Wisconsin	Frakes, Wayne Kelly.....Indiana
Brahy, Nicholas Richard...Illinois	Francisco, Winn O.....Minnesota
Bromberg, Samuel .....Illinois	Gardner, Alfred .....Canada
Brown, William Henry...Wisconsin	Gilbert, Erwin Alvin....Minnesota
Butler, P. M.....Illinois	Gilruth, William Archibald..Illinois
Cabeen, Milo Howard.....Illinois	Gindich, Raymond Hyman...Illinois
Caradine, Winford Hugh.Wisconsin	Gleave, John Ernest.....Utah
Cardio, Frank E.....Iowa	Goering, Ray Frank.....Minnesota
Carroll, William H.....Minnesota	Gordon, William Al.....Indiana

*Matriculated but not in attendance.

†Taking four-year course.

Gorecki, Victor Thaddeus....Illinois	Lamb, Curtis Anthony.....Utah
Graber, Benjamin Gilbert.....S. D.	Lambert, Earl Waddell.....Utah
Grandson, Clarence Maurice...N. D.	La Pres, Lloyd Marion.....Illinois
Greenberg, Alexander.....Illinois	Larson, Chester A.....South Dakota
Greenwood, Vern Raleigh....Utah	Larson, Otto Hans.....Illinois
Greer, Charles Alexander.Tennessee	Leach, Russell Vivian.....Canada
Halmhuber, Alvin Philip..Michigan	Lee, Arthur Lawrence.South Dakota
*Halushka, Alexander.....Illinois	Levin, Max Julien.....Washington
Haney, Mark H.....Minnesota	Lindberg, Arthur .....Wisconsin
Hanson, John Walter.North Dakota	Lindberg, Hjalmer .....Illinois
Harrington, William J.....Iowa	Linde, Arthur Sigfrid.....Illinois
Harris, Abraham Harry.....Illinois	Lipecki, John Richard.....Illinois
Harris, Stanley Allen....Minnesota	Love, McClaren Eugene..Minnesota
Hebard, Harry D.....Nebraska	Ludwig, William Raymond..Indiana
Hedeon, George Herbert..Minnesota	Lunak, Milo Ralph.....Iowa
Hendricks, Jules, Jr....South Dakota	Lyga, Paul A.....Wisconsin
Henningson, Harry....South Dakota	Macey, Harry Paul.....Minnesota
Hessling, Harold West.....Illinois	Mackey, Austin J.....Texas
Heyboer, Gabriel J.....Illinois	*Maier, Earl S.....Ohio
Highfield, John Fee.....Illinois	*Maier, Paul L.....Ohio
Hoge, Dale H.....Illinois	Mann, Philip .....Illinois
Hoiberg, Lilly Charlotte...Norway	Manevich, Morris .....Canada
Holmes, Edwin Emery.North Dakota	*Manz, John Robert.....Indiana
Howell, Frank William.....Illinois	Martin, Eric .....Illinois
Hughes, Eugene George.....N. D.	Matthew, Jules .....Michigan
Huscher, Earl William.....Utah	Maxson, Noel Miller.....Illinois
Hyland, Lester Ancel.....Oregon	McCrary, Lloyd Jennings.Wisconsin
Irle, Willard W.....Wisconsin	McKnight, Frank W.....Michigan
Israel, Samuel Herman.....Pa.	Meigs, Arthur Chapman.....Iowa
Jackman, Charles Thomas...N. D.	Meyer, Henry Donald.....Illinois
Jackson, Ralph Taylor.....Iowa	Milstein, Jacob .....North Dakota
Jacobs, Frank Clair.....Minnesota	Morgan, William B.....Wisconsin
Jacobson, Julius .....Illinois	Motz, Charles William.....Illinois
Jeffery, Alex Wiseman C....Wash.	Nance, Hays Neely.....Arizona
Jensen, Ernell .....Utah	*Nelson, Arthur C.....Michigan
Johnson, Alvin L.....Minnesota	Nelson, Earl O.....Iowa
*Johnson, Carroll William..Illinois	Neyman, Louis .....Montana
Jorgenson, James Morine.....Utah	Nichols, Cornelius Vigo....Illinois
Kahn, Edward .....Minnesota	Norman, Arthur John.....Illinois
*Kamins, Harry Hirsh.....Illinois	Nystrom, Egnar W.....Illinois
Kaplan, William .....Illinois	Oberdorfer, Edward Nicholas.Mich.
Kasputis, Casimier.....Russia	O'Brien, Vincent Walter....N. D.
Keefe, Leonard Allen.....Illinois	O'Connor, Thomas Wolfstone.Indiana
Kendall, Charles Henri...Wisconsin	O'Keefe, John Norbert.North Dakota
Kerwin, Joseph Francis....Illinois	*Ostrovsky, Benjamin Seelig.Illinois
Kliauga, Charles .....Lithuania	Oynes, Nels .....Illinois
Knopp, Thomas Bryan.....Texas	Patterson, Earl Mead.....Ohio
Kroner, Frederick Louis....Illinois	Penberthy, Charles William...Wis.
Kurtz, Theodore Brockhause.Illinois	*Peters, John H.....Washington
	Peterson, Raymond E.....Minnesota

*Matriculated but not in attendance.

Pickett, John T.....	California	Swank, Clyde Hubert.....	Illinois
Populorum, Paul Francis....	Illinois	Swanson, Helge	Montana
Quinn, Earl Sylvester.....	Indiana	Swartz, Roscoe Edward.....	Ohio
Quinn, Herbert Joseph.....	Utah	Tanner, Arthur.....	Canada
Rees, Frank Joshuay.....	Utah	*Tillson, Frank C.....	Montana
Robbins, Charles Bowser....	Indiana	Ting, Joseph Yau...Wailuke, Mani.	
*Robertson, Roemer Gilliam.	Canada	Toline, Clarence Axel.....	Illinois
Rominger, Cornelius Augustus...	Ill.	*Tschumperlin, Ray M....	Minnesota
Rosenstein, Samuel Joseph...	Illinois	*Tucker, Warren Samuel..	Louisiana
Rosenthal, Herman J.....	Illinois	Underwood, Percy Bertram..	Illinois
Rosheim, Knut Iver.....	Iowa	Vanoucek, Harry L.....	Illinois
Rouleau, Francis Albert....	Montana	Viezens, Harry Leo.....	Illinois
Ryan, Emmett Joseph.....	Iowa	Viken, Louis Oliver.....	Wisconsin
Scherman, Fred Charles....	Illinois	Voigt, John G.....	Illinois
Seidenberg, Alfred H....	Wisconsin	Voss, Charles, Jr.....	Illinois
Silberhorn, Otto Werner....	Illinois	Waalkes, Harry Egbert....	Illinois
Simons, Charles Lee.....	Illinois	Wagener, Holt Alden.....	Illinois
*Simonson, Edmund Godfrey..	Minn.	Walker, Chester Kenneth....	S. D.
Slagerman, Sidney Lions.....	N. D.	Walstrom, Lloyd Winship....	N. D.
Slingsby, Ira W.....	N. D.	Watson, William Francis....	Illinois
*Small, George Floyd.....	Iowa	Watson, John Alexander....	Illinois
Smith, Howard Julian.....	Iowa	Weber, Roland Arthur....	Wisconsin
Smith, John William..North Dakota		Webster, James Beam.....	Illinois
Smith, Stanley J.....	Illinois	Wedeborg, Carl Oscar..North Dakota	
Snyder, Hugh C.....	Indiana	Weidner, Hubert Pancratius..	Illinois
Sprecher, Arthur.....	South Dakota	Wells, Arthur James.....	Virginia
Starkson, Arthur Francis.....	S. D.	Winnick, Solly Lenord.....	Minnesota
Starshak, Tom Cyril.....	Illinois	Wold, Earl Norton.....	Iowa
Steinhart, George Thomas..	Illinois	Wollmann, Michael J..South Dakota	
Stocking, Bruce Leffingwell..	Michigan	Woodward, George Foster..	Illinois
Styrt, Nathan Abraham.....	Illinois	Wylie, William Leroy.....	Idaho
Sullivan, William H.....	Wisconsin	Zeiss, Philip Edward.....	Illinois
Swaigood, Forest Leroy.....	Ohio	Zimmerman, Albert M.....	Illinois

SOPHOMORES

Barker, Graham Frank....	Michigan	Monson, Harry Alfred.....	Illinois
*Beard, Guy Edward.....	Illinois	*Murphy, Kenneth Wayne...	Illinois
Buttner, Olga Ruth.....	Idaho	Riegel, Harry J.....	Illinois
*Chatterton, Melville Walter..	Cal.	Roman, Benjamin Andrew....	Ohio
Church, Robert Robins....	Tennessee	Root, Melvin Austin, Jr....	Illinois
Deason, Chester Oswald.....	N. D.	Runyan, Lewis Nichols.....	Illinois
Dinan, Wilfred Irvin.....	Texas	Seise, John Goddard.....	Illinois
Eshleman, Clyde Daniel....	Indiana	Strauss, William John.....	Illinois
*Ferrie, James William.....	S. D.	*Sutphen, George H.....	Illinois
Fosket, Robert R.....	Illinois	Thornton, Peter J.....	Ohio
*Fox, Clarence.....	Indiana	Thorsen, Arthur Valdimer..	Illinois
Gruesen, Joseph L.....	Minnesota	Tillotson, Kendall Spangler..	Illinois
Halstead, Paul Stafford....	Indiana	Tippet, Bert	Minnesota
Hurwitz, Harry Howard....	Illinois	Welling, Myron B.....	Illinois
Johnson, Arthur Lee....	South Dakota	Westenberger, Max	Iowa
		Williams, Russell Reed....	Montana

*Matriculated but not in attendance.

FRESHMEN

Ackerman, Charles, Jr.....	Illinois	Leininger, Clarence W.....	Illinois
Aron, Eugene S.....	Illinois	Marks, Arthur	Alabama
Arnold, W. McKinley.....	Iowa	Mathews, Harry W....	Washington
Barnard, Richard Edwin.....	Illinois	Mazurek, Joseph S.....	Wisconsin
Bell, E. Cyril.....	Indiana	McCornack, Donald M.....	Canada
Bell, James R.....	Illinois	*McEachern, Allan	Illinois
Blachly, D. W.....	Indiana	McKee, Dale L.....	South Dakota
Blais, Otto R.....	Minnesota	*McMullen, Johnathan Glenn..	Wis.
*Borg, Alfred L.....	Illinois	Meranda, Harry Alvin....	Missouri
Borg, John Ebert.....	Illinois	Merschatt, Arnold	Illinois
Bowling, Owen	Indiana	Moore, Carl L.....	Kansas
Brandser, Robert Edward..	Wisconsin	Moulton, Harry A....	South Dakota
Brickwell, George William..	Illinois	Munro, Edward Frederick...	Illinois
Campion, Sylvester John..	Minnesota	Nakano, Yoshitaka	Hawaii
Chase, Ralph Raymond...	Michigan	Nishimura, Hideichi	Hawaii
Chrt, George	Illinois	O'Hara, John Stirling....	Michigan
Collins, Josiah W., Jr.....	S. D.	Otis, Paul	Michigan
Corcoran, Wilfred C..	North Dakota	Peters, Leonard A.....	Iowa
*Dale, Gilfred Roy.....	Wisconsin	Poliak, Edward	Colorado
Dang, Tai Hee.....	Hawaii	Pommer, William Albert....	Canada
Datz, William Frederick, Jr.	Illinois	Quinlan, Leo Jerome.....	Indiana
Davis, Paul M.....	Indiana	Radzinski, Paul Anthony..	Michigan
Dewey, Walter M.....	Michigan	Rafish, Samuel M.....	Montana
Dibblee, Basil R.....	Indiana	Redlich, Hermann E.....	Illinois
*Duarte, Horace	Pennsylvania	Reece, William Ethabert....	Utah
Dybdal, Arthur E.....	Minnesota	Romine, Neva Louise.....	Kansas
Gardner, Maxwell Leonard..	Canada	Rubens, Sidney Leon.....	Illinois
Garrison, Nelson	Illinois	Rubloff, Harry L.....	Illinois
Gates, Raymond John.....	Illinois	Sanwick, Otto.....	Wisconsin
Greenburg, Julius Nelson...	Illinois	Schauf, Edward John.....	Illinois
Hall, Edwin E.....	Ohio	*Shafer, Feno S.....	Utah
Hanson, Avery	Michigan	Shissler, Francis.....	Illinois
Harris, Richard V.....	Minnesota	*Silverman, Sidney	Illinois
Harvey, Ward Winfield.....	S. D.	Smith, Richard Clayton...	Michigan
Hax, George W.....	Illinois	Steffes, Clarence L.....	Illinois
Higham, Alvin	Minnesota	Stitzel, Sumner A....	North Dakota
Houlihan, Joseph Harold....	Iowa	Sutter, Fred William....	Michigan
Howell, Raymond L.....	Indiana	Swanson, Edgar Walfred...	Indiana
Hulvey, Leo	Illinois	Taggart, Eleanor Ethel...	Illinois
Hunter, Robert G.....	Iowa	Tait, James Weir.....	Canada
James, Clarence Edgar.....	Illinois	*Tohms, Clifton William...	Illinois
Johnson, Walter Ralph.....	Illinois	Toraason, Hiram W.....	Wisconsin
*Kalcheim, Harry	Illinois	*Turbow, Victor Morris....	Indiana
Kelly, Harley Edmund.....	Iowa	*Walker, Lee Earl.....	Illinois
*Kramer, David	Illinois	Watkins, Vertice O.....	Arizona
Larsen, Reuben	South Dakota	Weiss, Leslie Lisle.....	Indiana
*Lawrence, John G.....	Minnesota	Wescott, Randall Livingston..	Mich.
Lean, Garnett E.....	North Dakota	Williams, Roger S.....	Wisconsin
Lee, Reuben G.....	Minnesota	Wilmoth, William Alvin....	Kansas
		Woods, Harold J.....	Illinois

*Matriculated but not in attendance.

Special Preparatory Course

for

Dental Officers' Reserve Corps of the Army

JULY, 1917

Anderson, Alfred George, D.D.S.....	Illinois
Birtwistle, John Edward, D.D.S.....	Illinois
Black, Merle Thomas, D.D.S.....	Illinois
Bokman, Arthur Frederick, D.D.S.....	Illinois
Bommersheim, Earle Ferdinand, D.D.S.....	Michigan
Cassidy, George, D.D.S.....	Massachusetts
Chrt, Otto Thomas, D.D.S.....	Illinois
Corlew, Jesse John, D.D.S.....	Illinois
Davy, Oakley Bruce, D.D.S.....	Illinois
English, Winfrey William, D.D.S.....	Missouri
Finn, William Selby, D.D.S.....	Illinois
Freudenberg, Robert Scharle, D.D.S.....	Illinois
Gale, Frank Willis, D.D.S.....	Illinois
Gallagher, John Connel, D.D.S.....	Minnesota
Gallie, Donald M., Jr., D.D.S.....	Illinois
Gilbertson, Oscar Elert, D.D.S.....	Illinois
Gurney, Edward Brower, D.D.S.....	Illinois
Hess, Frank G., D.D.S.....	Minnesota
Hoeffel, Paul, D.D.S.....	Illinois
Holland, Theodore Albert, D.D.S.....	Illinois
Hooper, Harold Andrew, D.D.S.....	Michigan
Howell, Harry Carl, D.D.S.....	Illinois
Huxtable, Harvey Simpson, D.D.S.....	Wisconsin
Jackson, Clarence Pefferce, D.D.S.....	Iowa
Johnson, Walter W., D.D.S.....	Illinois
Jonas, Sam Theo., D.D.S.....	Illinois
Jones, Harry Reese, D.D.S.....	Wisconsin
Kellogg, John Sanford, D.D.S.....	Illinois
Kettlewell, Norman Lloyd, D.D.S.....	Minnesota
Kirmse, H., D.D.S.....	Wisconsin
Lebowitz, Abraham Emanuel, D.D.S.....	Illinois
Lundquist, Gottfred Rudolph, D.D.S.....	Illinois
Manosevitch, George Herman, D.D.S.....	Illinois
Marks, Rodney Hugh, D.D.S.....	Illinois
McLaughlin, Angus James, D.D.S.....	Illinois
Miller, Clyde J., D.D.S.....	Illinois
Newton, Francis Jefferson, D.D.S.....	Illinois
Pitts, Leonard Brooks, D.D.S.....	Illinois
Roberts, Harold Cecil, D.D.S.....	Indiana
Roe, Walter, D.D.S.....	Illinois
Rosenblum, Maurice, D.D.S.....	Illinois
Schultze, Louis, D.D.S.....	Wisconsin
Shapira, Charles Alter, D.D.S.....	Illinois
Shaughnessy, L. J., D.D.S.....	Indiana

Schoenbrod, Abraham M., D.D.S.....	Illinois
Soffel, Arthur Elmer, D.D.S.....	Illinois
Stansbury, George H., D.D.S.....	Illinois
Trulson, Palmer Charles, D.D.S.....	Illinois
Watts, Emmett Ross, D.D.S.....	Iowa
Werner, Adrian Frank, D.D.S.....	Minnesota
Wickstrom, Walter C., D.D.S.....	Illinois
Woods, Frank Ray, D.D.S.....	Illinois

Officers' School of Plastic and Oral Surgery

Established by Order of the Surgeon General
of the Army

NOVEMBER—DECEMBER, 1917

Banner, Capt. Charles W.....	North Carolina
Barns, Capt. Frank M.....	Nebraska
Burnside, Lieut. Lyman A.....	Indiana
Carnes, Capt. William A.....	Tennessee
Cleaves, Lieut. Prentiss B.....	Iowa
Cox, Lieut. Oliver C.....	Washington, D. C.
Donlevy, Lieut. Frank D.....	Illinois
Dozier, Capt. Earnest.....	California
Elliston, Lieut. Leroy B.....	Illinois
Fowler, Lieut. Sherman M.....	Michigan
Frazier, Capt. Claude E.....	Missouri
Frazier, Lieut. Max C.....	Iowa
Gallie, Lieut. Donald M.....	Illinois
Garriott, Lieut. John P.....	Indiana
Holland, Lieut. Carl M.....	Illinois
James, Capt. Maurice C.....	West Virginia
Kellogg, Lieut. John S.....	Illinois
Leach, Lieut. Floyd D.....	Illinois
Lee, Lieut. Jay Harry.....	Indiana
Leonard, Lieut. Frank S.....	Indiana
Lester, Capt. Frederick W.....	New York
Lyman, Capt. Francis R.....	New York
MacGibbon, Lieut. Everett E.....	Minnesota
McLean, Capt. George D.....	Oklahoma
Morgan, Lieut. Walter M.....	Tennessee
O'Bannon, Lieut. Brien B.....	Tennessee
Postle, Lieut. Merton M.....	West Virginia
Rockey, Capt. Alpha E.....	Oregon
Siewert, Lieut. George D.....	Wisconsin
Skiff, Lieut. George S.....	New York
Steffens, Lieut. Charles.....	New York
Todd, Lieut. David D.....	Michigan
Voss, Lieut. John.....	Iowa
Young, Lieut. Earl T.....	Illinois

Practitioners' Course

FEBRUARY, 1918

Barnes, John William, D.D.S.	Montana
Bates, Orville Lee, D.D.S.	Illinois
Best, Isaac Dodd, D.D.S.	Kentucky
*Brown, William E., D.D.S.	Michigan
Cobb, Casper Allen, D.D.S.	Wisconsin
Fisher, Harry A., D.D.S.	New York
Hanson, Carl Edward, D.D.S.	South Dakota
*Harrison, J. C., D.D.S.	West Virginia
Hartsfield, John David, D.D.S.	Oklahoma
Haury, Arthur Otto, D.D.S.	Kansas
Hurst, Harry Emerson, D.D.S.	Iowa
Irimajiri, Naoshige, D.D.S.	New York
McHenry, William Allen, D.D.S.	Nebraska
McLeran, John William, D.D.S.	Nebraska
Mozisek, Robert Nicholas, D.D.S.	Texas
Napton, Thomas Lanier, D.D.S.	Montana
Parr, John Cullen, D.D.S.	Tennessee
Pettit, Blaine Bowman, D.D.S.	Michigan
Raiche, Frederick E., D.D.S.	Wisconsin
Reisling, Frank Carl, D.D.S.	Oklahoma
Rogers, Edward Burton, D.D.S.	Ohio
Silcott, James, D.D.S.	Ohio
Singer, David Samuel, D.D.S.	Illinois
Smale, Robert Edward, D.D.S.	Canada

Army Dental Service Course

FEBRUARY, 1918

Ambrugy, Cullen, D.D.S.	West Virginia
Beckett, Roy, D.D.S.	Kentucky
Bell, Frank J., D.D.S.	Montana
Blayney, James Roy, D.D.S.	Illinois
Boehler, George M., D.D.S.	Nebraska
*Briggs, Charles F., D.D.S.	Ohio
Carr, Cyril Sargeant, D.D.S.	Indiana
Colter, Roy B., D.D.S.	Wisconsin
Cooley, Ralph Clarkson, D.D.S.	Texas
Coon, Corliss Dale, D.D.S.	Iowa
Crawford, Clarke Raymond, D.D.S.	Pennsylvania
Croessmann, June W., D.D.S.	Illinois
Davis, John Harrison, D.D.S.	South Dakota
Eisenman, Abraham, D.D.S.	Ohio
Elder, Clifford P., D.D.S.	Kansas
Epling, Giles Thomas, D.D.S.	West Virginia

*Matriculated but not in attendance.

Fenzel, Frank William, D.D.S.....	Ohio
Fitzgerald, Vitus Arthur, D.D.S.....	Washington
Harris, Clarence Sidney, D.D.S.....	Pennsylvania
Hocking, Harry G., D.D.S.....	North Dakota
Hull, Ira Thomas, D.D.S.....	Indiana
Jacobs, Augustus Carlysle, D.D.S.....	Missouri
Jensen, Harold B., D.D.S.....	Oregon
Johnston, John Harvey, D.D.S.....	Montana
Kreamer, Charles W., D.D.S.....	Nebraska
*Kremer, Leo Wilfred, D.D.S.....	South Dakota
Leach, Herbert Salusus, D.D.S.....	Indiana
Lloyd, Daniel J., D.D.S.....	Ohio
Meaker, Stanleigh Reeve, D.D.S.....	New York
Moomey, Mervil L., D.D.S.....	Illinois
Morgen, John E., D.D.S.....	Kansas
Morgan, Ralph E., D.D.S.....	Pennsylvania
*Preston, John L., D.D.S.....	Texas
Quesnell, Arthur John, D.D.S.....	Minnesota
Rietz, Arthur R., D.D.S.....	Indiana
Robertson, Lester James, D.D.S.....	North Dakota
Sellers, Maurice B., D.D.S.....	Indiana
Sheppard, Frank G., D.D.S.....	West Virginia
Silverberg, Edward Melvin, D.D.S.....	Colorado
Thomas, Elmer Alonzo, D.D.S.....	Nebraska
Turner, Reuben Cattlett, D.D.S.....	Kansas
*Welter, Charles H., D.D.S.....	Indiana
Whitney, Harry Carroll, D.D.S.....	South Dakota
Wild, Rudolph Louis, D.D.S.....	Missouri
Wilkinson, Frank Henry, D.D.S.....	Michigan
Williams, Raymond L., D.D.S.....	Wisconsin

Officers' School of Plastic and Oral Surgery

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of the Army

MARCH, 1918

Carter, Lieut. Edward C.....	Colorado
Chambers, Capt. Harry L.....	Kansas
Fleming, Lieut. Samuel Clifton.....	Illinois
Ford, Lieut. James W.....	Illinois
Gauerke, Lieut. Gilbert H.....	Wisconsin
Grant, Lieut. Henry Lee.....	Kentucky
Harned, Capt. Calvin Waldo.....	Iowa
Hassig, Capt. John Franklin.....	Kansas
Hughes, Lieut. Richard C.....	Colorado
Hynson, Lieut. Garrett Lee.....	Oregon

*Matriculated but not in attendance.

Johnson, Lieut. Joseph E.....	Kentucky
Karshner, Capt. Warner Melvin.....	Washington
Kellogg, Lieut. John S.....	Illinois
Kelly, Lieut. Edmund J.....	California
Lazear, Lieut. Davies.....	Illinois
Lewis, Lieut. Samuel J.....	Michigan
Mabie, Lieut. L. D.....	Kansas
Mentzer, Lieut. William Edward.....	Minnesota
Morrow, Lieut. Henry.....	Iowa
Moss, Lieut. Zachariah W.....	Illinois
Narrley, Lieut. George Raymond.....	Iowa
Post, Lieut. Norman A.....	New York
Pruyn, Lieut. Walter M.....	Illinois
Tholen, Capt. Emil Francis.....	California
Thompson, Lieut. Oscar William.....	Kentucky
Trimble, Lieut. James Ford.....	Pennsylvania
Tuckey, Lieut. Harry Alfred.....	California
Vander Bogart, Lieut. Harry Eugene.....	Illinois
Wadsworth, Lieut. Henry Palmer.....	Illinois
Ward, Capt. Mark Hopkins.....	New York
Webster, Lieut. Frederick W.....	Nebraska
Williams, Lieut. William C.....	Illinois

Roll of Honor

WEEDEN EDWARD OSBORNE

Class of 1915

Killed in action. Dr. Osborne was the first officer of the naval forces
to be killed in action in France.

Geographical Distribution of Students

	Seniors	Juniors	Sophomores	Freshmen	Post Graduates	Total
Alabama .....	..	..	..	I	..	I
Arizona .....	..	I	..	I	..	2
Arkansas	3	..	..	..	..	3
California	I	I	..	..	4	6
Colorado .....	..	..	..	I	3	4
District of Columbia .....	..	..	..	..	I	I
Georgia	I	..	..	..	..	I
Idaho .....	..	I	I	..	..	2
Illinois	72	86	14	33	57	262
Indiana	9	14	3	10	12	48
Iowa	7	16	I	5	10	39
Kansas	2	2	..	3	7	14
Kentucky .....	..	..	..	..	5	5
Louisiana	2	I	..	..	..	3
Massachusetts .....	..	..	..	..	I	I
Michigan	4	8	I	9	8	30
Minnesota	14	19	2	7	7	49
Missouri	3	I	..	I	4	9
Montana	4	8	I	I	4	18
Nebraska	2	I	..	..	7	10
New York	2	..	..	..	9	11
North Carolina .....	..	..	..	..	I	I
North Dakota	8	14	I	3	2	28
Ohio	4	6	2	I	6	19
Oklahoma	I	..	..	..	3	4
Oregon	2	I	..	..	3	6
Pennsylvania	I	I	..	I	4	7
South Dakota	16	12	2	5	4	39
Tennessee .....	..	I	I	..	4	6
Texas	2	3	I	..	3	9
Utah	6	11	..	2	..	19
Vermont	I	..	..	..	..	I
Virginia .....	..	I	..	..	..	I
Washington	3	4	..	I	2	10
West Virginia .....	..	..	..	..	6	6
Wisconsin	29	15	..	7	10	61
Hawaiian Islands	2	I	..	3	..	6
Panama	I	..	..	..	..	I
Armenia	I	..	..	..	..	I
Australia	I	..	..	..	..	I
British West Indies	I	..	I	..	..	I
Canada	7	5	..	4	I	17
Lithuania .....	..	I	..	..	..	I
Norway	I	I	..	..	..	2
Russia .....	..	I	..	..	..	I
TOTALS	213	237	31	99	188	768

Northwestern University Dental School Alumni Association

OFFICERS FOR 1918-1919

J. D. BLACKWELL, President, Chicago.

J. D. LYDING, First Vice-President, Chicago.

W. C. WALKER, Second Vice-President, Chicago.

M. M. PRINTZ, Secretary and Treasurer, 25 E. Washington St., Chicago.

EXECUTIVE COMMITTEE

LUCIEN H. ARNOLD, Chairman, Chicago.

EUGENE MAGINNIS, Chicago.

T. B. S. WALLACE, Chicago.

The annual Home-coming Clinic will be held Tuesday, June 10, 1919, at the University Building.

The Association publishes a quarterly Journal, which is a medium for the circulation of articles of interest to Northwestern alumni and for the exchange of friendly greetings. The Alumni Association and the Journal exist for the purpose of maintaining and advancing all things of mutual interest to the alumni and the School.

All members of the Association in good standing will receive the Journal. Any graduate of the Northwestern University Dental School may become a member of the Alumni Association upon payment of the membership fee of one dollar and dues of one dollar annually.

We ask that the Alumni support the Association and the Journal, and co-operate earnestly with the officers in making our official publication a still greater success.

For information regarding the Association, address the Secretary.

M. M. PRINTZ, Secretary-Treasurer,
25 E. Washington St., Chicago.

For information regarding the School, address Northwestern University Dental School, 31 W. Lake St., Chicago.

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